Title 21-Food and Drugs

CHAPTER I—FOOD AND DRUG ADMINISTRATION, DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE

SUBCHAPTER B-FOOD AND FOOD PRODUCTS SUBCHAPTER E-ANIMAL DRUGS, FEEDS, AND RELATED PRODUCTS

[Docket No. 75N-0171]

PART 121-FOOD ADDITIVES -NEW ANIMAL DRUGS FOR

PART 558-USE IN ANIMAL FEEDS Antibiotic, Nitrofuran, and Sulfonamide Drugs in the Feed of Animals

The Food and Drug Administration issues a list of manufacturers of medicated premixes and their products in compliance with the provisions of § 558.-15 Antibiotic, nitrojuran, and suljonamide drugs in the feed of animals (21 CFR 558.15), and deletes from the regulations those manufacturers and products that are subject to, but have-not complied with, the requirements for continued marketing set forth in § 558.15. This order shall be effective March 26, 1976.

BACKGROUND

In the Federal Register of February 1. 1972 (37 FR 2444) and April 20, 1973 (38 FR 9811), the Commissioner of Food and Drugs proposed and promulgated, respectively, \$558.15. The Commissioner announced in \$558.15 that he would propose to revoke currently approved subtherapeutic uses in animal feed of antibiotic, nitrofuran, and sulfonamide drugs, whether granted by approval of new animal drug applications (NADA's), master files, and/or antibiotic or food additive regulations, unless data were submitted which resolve conclusively certain issues concerning their safety in man and in animals and their effectiveness. The announced criteria for the resolution of these issues were based onthe guidelines included in the report of the FDA Task Force on the Use of Antibiotics in Animal Feeds and developed by the Bureau of Veterinary Medicine. Ali persons or firms previously market-ing drug products identical, related, or similar to those for which approvals were outstanding were required to sub-mit new animal drug applications if marketing was to continue in the in-

Pursuant to section 512(1) of the Federal Food, Drug, and Cosmetic Act, the Commissioner particularized in § 558.15 criteria that must be met to resolve the issues concerning the safety and effectiveness of these drugs. Section 558.15 (b) (1) required any person interested in developing data which would support retaining approval for subtherapeutic uses of antibiotic, nitrofuran, and sulfonamide drugs to submit to the Commissioner records and reports of completed, ongoing, or planned studies, including protocols, on a prescribed schedule: For the tetracyclines, streptomycin, dihydrostreptomycin, penicillin, and the sulfonamides, by July 19, 1973; for all other antibiotics, by October 17, 1973; and for

nitrofuran drugs, by March 4, 1974. Furthermore, \$558.15(c) gave notice that the failure of the sponsor of any drug to comply with any of the provisions included in paragraph (b) of that section or interim results indicating a health hazard would be considered as grounds for proceeding immediately to withdraw approval of the drug for use in animal feeds under section 5120) of the act (in the case of the failure to submit required records and reports) or section 512(e) of the act (where new information shows that the drug is not shown to be safe).

A notice of proposed rule making was published in the Federal Register of August 6, 1974 (39 FR 28393) to amend § 558.15 by revising paragraph (a) and

by adding paragraph (g) (1) and (2).
The proposed revision of paragraph (a) was in error. Because the language of the proposal was identical to that already appearing in the CFR, any treatment of the erroneous proposed revision to paragraph (a) has been omitted in

this final regulation.

Paragraph (g) (1) was to list the antibacterial drug premixes manufactured by designated sponsors which are eligible for interim marketing based on their compliance with \$558.15(b)(1). Para-graph (g)(2) was to list the drug combinations permitted for inclusion in animal feed, when prepared from the antibacterial premixes listed in paragraph (g) (1), and the sponsors of these drug combinations. In addition, the Commissioner proposed to exempt from the requirements imposed by § 558.15 producers of certain intermediate premixes. The Commissioner concluded (39 FR 28393) that the producers of intermediate premixes need not at this time submit an NADA and the data required under § 558.15 for the interim marketing of any intermediate premix produced solely from a premix that is in compli-ance with this section, if the intermediate premix contains no drug ingredient whose use in or on animal feed requires an approved NADA pursuant to section 512(m) of the act and/or if the intermediate premix contains a drug for which a specific premix has been approved by regulation in Subpart B of 21 CFR Part 558.

In the same issue of the Federal Recister (39 FR 28382), a notice was published proposing to amend 21 CFR Parts 121, 135e (recodified at Part 558 Subpart B), 135g (recodified at Part 556), and 144.26 (recodified at § 510.515) to revoke approvals for those antibacterial drugs intended for use in animal feed which are not in compliance with the requirements of § 558.15. Included in that notice was a proposal to revoke § 558.19 Combination antibiotic drugs in animal feeds no longer sanctioned, since the provisions of § 558.19 were otherwise encompassed by the proposed amendments. Certain uses of oxytetracycline and neomycin, alone or in combination with other drugs, which are not the subject of published regulations or for which commitments were not recelved and for which usages were not

listed in the corresponding amendment to \$ 558.15 were also subject to the proposed revocation.

EFFECT OF THIS ORDER

This order identifies the drug firms and the antibacterial drugs intended for use in animal feeds which they sponsor that are currently in compliance with the provisions of \$558.15 and revokes from the regulations those subtherapeutic uses of antibiotic, sulfonamide, and nitrofuran drugs for which the required commitments, reports, and/or data required by \$ 558.15 were not filed.

One provision of § 558.15 required all holders of approvals of these new animal drugs and all persons or firms previously marketing identical, related or similar products to file records and reports of completed, ongoing, or planned studies, including protocols, to resolve conclusively the issues concerning their safety to man and animals. Paragraph (g) (1) of § 558.15, as set forth below, is an exclusive list of the antibacterial drug promixes which, because their sponsors have filed commitments to conduct studies that will conclusively resolve the issues concerning the safety of their subtherapeutic usages, are eligible for interim marketing.

Additionally, § 558.15(b) (3) mandated commitments to submit data to demonstrate the effectiveness of these antibacterial drugs for subtherapeutic usage under criteria established by the Bureau of Veterinary Medicine. The Commissioner called for this data to continue the evaluation of the effectiveness of combination animal drug products which was initiated with the promulgation of § 558.19. Changes in the new animal drug review process that began in June 1967 incorporated contemporary scientific criteria to measure the effectiveness of drugs marketed to promote increased rate of weight gain, and/or increased feed efficiency. The effectiveness of most combinations approved since that time has been evaluated using these contemporary scientific criteria. Section 558.15 requires no further determination of effectiveness for combinations determined to be effective under these criteria. The regulation, however, required sponsors of all previously approved subtherapeutic antibacterial combination drugs that had not been evaluated using these criteria to submit a commitment to generate necessary data for these products to be eligible for interim marketing until these data-can-be-reviewed.

Paragraph (g) (2) of § 558.15, as set forth below, lists all drug combinations eligible for interim marketing and the manufacturers who are sponsoring the requisite effectiveness testing. Marketing is permitted only for these combinations and only when they are prepared from the antibacterial premixes listed in paragraph (g) (1). Most of the drugs already approved under these effectiveness cri-teria have been codified in Subpart B of 21 CFR Part 558; these drugs have been incorporated in paragraph (g) (2) by reference because of the large number of drugs affected and the length of the applicable regulations. The only other drug

combinations that are eligible for interim marketing have either been approved on the basis of the contemporary effectiveness criteria and not been published in Subpart B of 21 CFR Part 558 or have had commitments filed to generate the requisite effectiveness data; all these combinations are listed in paragraph (E) (2).

Commitments to generate data to demonstrate the effectiveness of the individual antibiotics listed in 21 CFR 121.-225 were not required by § 558.15. The National Academy of Sciences—National Research Council, Drug Efficacy Study, concluded, and the Commissioner concurred, that individual antibiotics listed in that section are effective for certain claims regarding increased rate of weight gain (35 FR 11070, 11531, 11646, 11705, 11952, 12490, 13156, and 13401). However, commitments to resolve conclusively the safety issues posed by these drugs were required. These antibiotics are safe and effective for use under contemporary standards, and commitments to conduct studies that will conclusively resolve the issues concerning their safety raised by § 558.15 have been filed. Therefore, these antibacterial drugs are eligible for in-terim marketing, and they have been listed in paragraph (g) (2) together with

their sponsors.

The Commissioner is also amending 21 CFR 510.515 (formerly 21 CFR 144.26). This regulation lists those antibiotics intended for use alone or in combination with other drugs in animal feeds that are exempt from the certification requirements of section 512(n) of the act, and the Commissioner has revised this regulation to revoke any prior exemption from certification for which the commitments required by § 558.15 were not submitted.

Comments on the proposal were received from 15 firms engaged in the manufacture of drugs used in the production of medicated feeds. Comments were also received from an association of animal drug manufacturers and an association of animal feed manufacturers on behalf of their respective members. Several comments raised questions respecting the procedures being followed to revoke the unsponsored uses of these drugs; however, most of the comments from the drug and feed manufacturers were concerned with the proposed dele-

The principal comments received and the Commissioner's conclusions regarding them are as follows:

tion from the regulations of specific an-

tibiotic combination drugs.

1. A trade association requested that due consideration be given to comments of its member firms and requested that the August 6, 1974 announcement and the September 27, 1974 correction be republished as a single proposal if they contain a substantial number of errors.

The Commissioner concludes that this order need not be republished as a proposal. Each comment has been carefully evaluated to determine which drugs, if any, were incorrectly proposed for revocation from the regulations and which drugs and drug sponsors, if any, were

improperly omited from the appropriate lists in paragraph (g) (1) and (2) of \$558.15. In addition, all comments submitted pursuant to requirements imposed by \$558.15 have been reviewed to assure the accuracy of the regulations as set forth below. Provisions of the regulations that were erroneously deleted or omitted in the proposals have been restored.

2. Several comments stated that the regulations, as proposed, would prohibit the marketing of products which are covered by approved NADA's or which are "deemed approved" by the transitional provisions of the Animal Drug Amendments of 1958. The comments stated that approval of these drug products may not be withdrawn through publication of a proposed rule, but must be withdrawn in accordance with provisions of section 512(e) of the act including, as provided therein, giving notice of opportunity for hearing for the specific NADA's involved.

The Commissioner concludes that the procedure used to withdraw approval of these NADA's satisfies the requirements of the Federal Food, Drug, and Cosmetic Act and the Administrative Procedure, Act. As proposed in the Federal Register of February 1, 1972 (37 FR 2444) and promulgated in the FEDERAL REGISTER of April 20, 1973 (38 FR 9811), § 558.15(c) states that the failure of any sponsor of an NADA for the use at subtherapeutic levels of any antibiotic, nitrofuran, and sulfonamide drugs in the feed of animals to comply with the requirements of the regulation will be considered grounds for immediately proceeding to withdraw approval of the NADA for fallure to comply with section 512(1) of the act. Section 512(e)(2) of the act permits the Secretary, after due notice and opportunity for hearing to with-draw approval of the NADA for failure to comply with section.512(1) of the act. Thus compliance with \$ 558.15 is properly required as a condition for continued approval of an NADA.

The proposed deletion of regulations published in the Federal Register of August'6, 1974 (39 FR 28382) constituted specific public notice of the Commissioner's determination that the drugs listed therein (as subsequently amended) were not in compliance with § 558.15(b) and that such drugs were therefore subject to withdrawal of approval pursuant to § 558.15(c). Similarly, the companion notice of proposed rule making also published on August 6, 1974 (39 FR 28393) afforded public notice to all sponsors of those drugs for which commitments to conduct the required safety and/or effectiveness studies had been filed pursuant to § 558.15 that they were in compliance with the regulation.

This procedure of providing notice by FEDERAL REGISTER publication was used because many of the drugs involved were originally marketed pursuant to anti-blotic and food additive regulations, and the agency had previously exempted these drugs from the antiblotic batch certification requirements and Form FD-1800 requirements. The Commissioner was therefore not able to identify all persons who had legally been market-

ing these drugs. The August 6, 1974 notice of proposed rule making, in combination with the proposed deletion of the regulations, afforded adequate notice to sponsors of antibacterial drugs not listed in paragraph (g) (1) and (2) of § 558.15 that they had failed to comply with § 558.15(b), and that such drugs were therefore subject to withdrawal of approval in accordance with § 558.15(c). Having failed to file responses demonstrating that their products are in compliance with the regulation is, or should be, inapplicable, sponsors of drugs for which approvals are hereby withdrawn have not shown the necessity for a hearing at which the only issue could be whether those requirements have been met.

The Supreme Court has recognized that class regulation through rule making is legally permissible and, indeed, often preferable to case-by-case adjudication. See, e.g., Weinberger v. Hynson, Westcott & Dunning, Inc., 412 U.S. 609, 620-622 (1973); Weinberger v. Bentex Pharmaceuticals, Inc., 412 U.S. 645, 653. (1973); Federal Power Commission v. Texaco, 377 U.S. 33, 39-41 (1964); United States v. Storer Broadcasting Co., 351 U.S. 192, 202-205 (1956). In this instance, the Commissioner has particularized the statutory standards for continued approval of NADA's by promulgating \$558.15. No hearing need be afforded an applicant whose submissions, after proper notice, on their face fall to meet the requirements for NADA approval of to provide reasons why approval of its NADA should not be withdrawn.

The Commissioner concludes that all interested persons have been afforded ample opportunity to participate in the development of the requirements contained in \$558.15 and to comply with those requirements or offer reasonable explanation for failure to comply. Accordingly, all applicable legal standards have been met and approval of the NADA's involved may properly be withdrawn by regulation.

3. One comment suggested that each distributor for whom a distributor's supplemental NADA has been filed by the holder of the approval should be listed as a sponsor of the drug in paragraph (g) (1) or (2) if the holder of the approval is in compliance with the requirements of \$558.15. This comment contended that the failure to list every approved distributor would cause confusion and would place distributors at a competitive disadvantage because products that do not carry the name of a listed sponsor will inevitably suffer in the marketplace.

The Commissioner does not agree with this suggestion. Section 512(1) of the act provides for the publication in the FEDERAL REGISTER Of the name and address of the applicant (i.e., the sponsor) of an approved NADA. A distributor (unless he is also the sponsor of the NADA) is not an "applicant" within the meaning of section 512(1) but simply a person who distributes under his own label a product manufactured and labeled for him by one who is an applicant. Thus, there is no legal requirement that the

names of distributors be published and it has never been Agency practice to do so. Listing distributors would impose an unwarranted burden on the Agency because of the large number of distributors and their propensity to change suppliers. Moreover, where a distributor wishes to do so, there is no bar to his listing on a drug label the names of both the manufacturer and the distributor of the product provided it is done in such a manner as to reveal clearly the connection (i.e., as manufacturer or distributor) each person or firm has with the product. Therefore, the Commissioner concludes that distributors should not be listed in § 558.15.

4. Four comments opposed deletion from the regulations of a limited number of drug products containing antibacterials in therapeutic concentrations which do not have a 14-day limit on their use. The comments stated that § 558.15 implements the recommendations of the FDA Task Force on the Use of Antibiotics in Animal Feeds, which directed its attention to the continuous use of subtherapeutic levels of antibacterial drugs in animal feeds, and the marketers were not given proper notice to comply with regulation.

The Commissioner advises that the Task Force was concerned with the health hazard associated with the subtherapeutic use of antibacterial drugs in animal feeds. After the promulgation of § 558.15, a determination was made that the use of any antibacterial drug continuously in feed for longer than 14 days should be considered a subtherapeutic usage, and the Commissioner concluded that sponsors of antibacterials intended for such use must meet the requirements established in the regulation regardless of the concentration of the antibacterial agents in the drug products. This policy was made known to a number of drug sponsors as questions arose on individual products, but the requirement was not included in either the proposed or final regulation. The Commissioner concludes that sponsors of antibacterial drug products intended for use in animal feeds for treatment of disease for more than 14 days were not provided adequate notice that the requirements established by § 558.15 were applicable to them. Therefore, the proposed deletion of these antibacterial products from the regulations is vacated.

This decision does not undermine the impact of the regulation. The use of antibacterial drugs in animal feeds ordinarily is not the preferred route of administration when treating an animal disease. Animals manifesting clinical symptoms of disease in most cases consume abnormally small amounts of feed. Therefore, the successful treatment of the disease is often hindered by difficulty in maintaining adequate drug exposure. This fact, together with the cost involved in feeding therapeutic levels of antibacterial drugs for greater than 14 days, leads the Commissioner to conclude that use of these drug products at therapeutic levels in feeds constitutes a CFR Part 121).

very small segment of the antibacterial drug market.

Finalization of the actions concerning the feed-use products evaluated by the National Academy of Sciences—National Research Council, Drug Efficacy Study, will deal with each of these products. Where appropriate, claims for treatment of disease will be limited to prescribed durations. Furthermore, should the studies of the subtherapeutic uses of these antibacterial agents being conducted pursuant to \$558.15 generate new evidence that undermines his previous conclusions as to the safety of these antibacterials, the Commissioner will propose to withdraw their marketing approyals.

5. Questions have arisen concerning the marketing status of products that combine diethylstilbestrol (DES) with a subtherapeutic antibacterial. Section 558.15 requires, all persons marketing subtherapeutic antibacterials for approved uses to file commitments to conduct studies that will conclusively resolve the issues of the safety of the use of the antibacterial ingredients and the effectiveness of the combination products on the basis of contemporary scientific testing criteria. However, because the Food and Drug Administration took regulatory action against DES before § 558.15 was promulgated, the impact of this regulation on the DES-aptibacterial combinations has never been clearly enunciated.

Between the notice of proposed rule making to require safety and effectiveness data for subtherapeutic uses of antiblotics on February 1, 1972 (37 FR: 2444), and the publication of the final order on April 20, 1973 (38 FR 9811), the Food and Drug Administration withdrew approval of all NADA's for DES liquid and drug premixes. Presumably because all approvals were withdrawn, no drug sponsors filed commitments to conduct the required studies for the DES-antibacterial drugs for subtherapeutic use. On January 24, 1974, the United States Court of Appeals for the District of Columbia Circuit held that the Agency's notice to holders of DES NADA's was inadequate as a basis for withdrawing their approval without a hearing, and reinstated both the approval of the NADA's and the accompanying regula-tions. Hess & Clark, Division of Rhodia, Inc. v. Food and Drug Administration, 495 F. 2d 975 (D.C. Cir. 1974). Formal confirmation of reinstatement of the regulations was published in the FEDERAL REGISTER of February 27, 1975 (40 FR

In the FEDERAL REGISTER Of August 6, 1974 (39 FR 28382 and 28393) and September 27, 1974 (39 FR 34682), the Commissioner issued a proposal to list all drugs and sponsors which were in compliance with \$558.15 and to revoke approval of all drugs not in compliance. No holders of approvals for DES combinations have ever filed either commitments to conduct the required studies, or comments objecting to omission of these combinations from the proposed list of sponsored combinations eligible for marketing and from Part 121 (21 CFR Part 121).

Although the Food and Drug Administration might therefore be legally justified in taking immediate action against these combination products, the Com-missioner acknowledges that the Agency's February 1975 reinstatement of the DES regulations pursuant to the Court of Appeals' order may have misled the sponsors as to the status of these products. The Commissioner has reviewed tho situation concerning these products and concludes that immediate final action against them is inappropriate at this time. At the same time, they remain subject to the requirements of § 558.15 of the regulations and section 512(1) of the act. The Commissioner has therefore determined that \$ 558.15 should be modified to clarify the status of DES-antibiotic combination products as follows:

In accordance with \$ 558.15, all marketed DES-subtherapeutic antibacterial combinations must contain antibacterials for which commitments to conduct the necessary safety studies have been filed and which are listed in paragraph (g) (1) of that section. Moreover, after reviewing the information available about the DES-subtherapeutic antibacterial combinations, the Commissioner has determined that no approvals for these combinations are supported by efficacy data that meet contemporary scientific criteria. For this reason, all sponsors of previously approved DESsubtherapeutic antibacterial combinations must file commitments to conduct studies satisfying these criteria to demonstrate the effectiveness of their products. Such commitments must be filed by March 26, 1976, which is more than 1 year after formal rein-statement of the DES regulations, the latest date on which makers of the DES combinations could plausibly believe that § 558.15 was inapplicable to their prod-ucts. Any conscientious sponsor, there-fore, will have sufficient opportunity to comply with the regulation. Because tho sponsors should have filed commitments and begun studies immediately after the January 24, 1974 decision of the Court of Appeals in Hess & Clark, supra, and because the necessary affectiveness studies require less time than the safety studies, data satisfying contemporary efficacy criteria must be submitted by March 26, 1977. All other provi-sions of \$558.15 are also applicable to these drugs. Only persons holding approvals for these combinations may market them in the interim; study progress reports must be filed every January 1 and July 1 until completion; and all provisions of § 558.15(c) concerning failure to submit required records and reports apply. Additionally, the extraordinary fact situation concerning the drugs requires further assurance of immediate compliance with the regulation as instituted. Therefore, the first progress reports demonstrating initiation of the studies must be filed by April 26.

DES subtherapeutic-antibacterial comcombinations fell within the scope of the Agency's original notice of proposed rule making on this matter, and sponsors of such products have had ample opportunity to demonstrate that \$ 558.15 was inapplicable or should be waived. No comments were filed, and these combinations may be regulated by \$ 558.15 as promulgated. Manufacturers of the combinations containing DES have already enjoyed an economic advantage over similarly situated sponsors of other antibacterial combinations. The Commissioner therefore concludes that the requirements herein set forth may be promulgated as a final order.

In the FEDERAL REGISTER of January 12, 1976 (41 FR 1804), the Food and Drug Administration issued a Notice of Opportunity for Hearing proposing to withdraw approval of all outstanding NADA's for the use of DES in animals used for human food, on the grounds that residues in animal tissue produced by the use of such products have not been shown to be safe and that the Delaney anticancer clause is applicable because no adequate methods exist that are capable of detecting and measuring residues of DES at levels above any that have been shown to be safe. The notice afforded holders of NADA's for DES an opportunity to request a hearing on the proposed withdrawal of approval and to demonstrate that disputed issues of material fact exist that require a hearing. Any hearing held in response to proper requests that are received is likely to occur during the first 6 months of 1976. To avoid any future misunderstanding, the Commissioner announces that, should a final Agency decision withdrawing approval of DES for use in animals used for human food be issued before the dates specified for final submission of data supporting the safety and efficacy of DESantibacterial combination products, this order will not authorize the continued marketing of these combination products pending the completion and submission of the required studies.

6. Questions have arisen about the impact on § 558.15 of Hoffmann-LaRoche v. Weinberger, Civil Action No. 75–0272 (D.D.C., filed July 27, 1975).

Section 558.15 serves three functions: Principally, it requires submission of data to resolve the safety and effectiveness questions pertaining to the use of subtherapeutic antibacterial drug combinations. Secondly, it provides the Agency with documentation of the marketing of subtherapeutic antibacterial combinations transitionally approved by section 108 of the Animal Drug Amendments and requires these files to be supplemented with contemporary scientific data. Finally, it establishes the conditions under which products containing subtherapeutic levels of antibacterial drugs for use in animal feed may continue to be marketed. These requirements permit FDA more efficiently to regulate the marketing and use of these drugs.

The decision in Hoffmann-LaRoche clarifies the scope of \$558.15. The Commissioner has thoroughly reviewed the files on all drugs and sponsors for which the commitments were received to conduct the studies required by this regula-

tion, and the only drugs and sponsors which the Commissioner has determined to be approved for use by NADA, NDA, master file, antibiotic regulation or food additive regulation have been listed. NADA's for drugs subject to the regulation that were filed by persons or firms that did not have, and in some instances may not have been required to have, an approval for marketing are being processed as part of the review required by \$ 558.15.

7. Whitmoyer Laboratories, Inc., questioned the proposed deletion of the carbarsone-bacitracin methylene disalicylate drug combination (Item c) from § 121.310(b) and the failure to list the combination in § 558.15(g) (1) because Whitmoyer holds an approved NADA for the carbarsone combination for use in turkey feed.

The Commissioner concludes that safety studies are being conducted pursuant to \$558.15 by the sponsors of bacitracin methylene disalicylate, and Whitmoyer Laboratories, NADA for the carbarsone-bacitracin methylene disalicylate combination was approved under contemporary efficacy criteria. Therefore, the Commissioner is vacating the proposed revocation of this drug combination from the regulations.

Addition of the drug combination to paragraph (g) (1), however, would be incorrect. Paragraph (g) (1) lists only the manufacturers sponsoring studies to demonstrate the safety of specific antibacterial premixes, and the drug combination is not a premix. Paragraph (g) (2), on the other hand, lists the drug combinations permitted for inclusion in animal feed when prepared from a premix in paragraph (g) (1) and the sponsors of these drug combinations. The NADA for Whitmoyer's combination product was approved under contemporary efficacy criteria, and the required safety studies are being conducted by the sponsor of the antibacterial premix. Because the drug combination meets the criteria established for interim marketing, the Commissioner has added Whitmoyer Laboratories, Inc., and this drug combination to paragraph (g) (2).

8. Norwich Pharmacal Company commented that indications for the use of nihydrazone in § 121.237(d), item 1, should not include claims for the coccidial species E. maxima or E. brunetti, or the claim for histomoniasis (black head).

As required by § 558.15, commitments have been filed to conduct studies to generate data to support the effectiveness of the nihydrazone drug combinations for the subtherapeutic indications of use set forth in § 121.237. The Commissioner, however, has not conducted a reevaluation of the data available to support the effectiveness claims of nihydrazone as a single ingredient for other indications of use. Nihydrazone, as a single ingredient, was approved for use, among other things, against histomoniasis (black head) and coccidiosis caused by E. maxima and E. brunetti. The Commissioner concludes that this order is not appropriate for the revision of the

approved uses for single ingredient new animal drugs that do not involve subtherapeutic claims. Such a revision would involve drugs whose sponsors were not " given appropriate notice to substantiate these claims of effectiveness. Revisions of this nature are more appropriately handled in a separate specific notice giving all holders of approvals for this drug an opportunity to support these indications of use with a well-organized and full-factual analysis of the data to support its effectiveness. This action can be more efficiently handled when all safety and effectiveness data generated pursuant to \$ 558.15 have been submitted and reviewed. At that time the Commissioner will determine whether the withdrawal of approval of any or all NADA's for nihydrazone drugs is appropriate. Therefore, the Commissioner disagrees with the contention that the indications. for use of nihydrazone against coccidiosis caused by E. maxima and E. brunetti or histomoniasis (black head) should be deleted from the regulations in this

9. The notices of August 6, 1974 proposed the deletion from § 558.105(f) (1) of buquinolate 75 grams per ton in finished feed for chickens in combination with: (iv) penicillin, 2.4 to 50 grams per ton; (v) bacitracin, 4 to 50 grams per ton; (v) bacitracin, 4 to 50 grams per ton; (vi penicillin plus bacitracin, 3.6 to 50 grams per ton (not less than 0.6 gram of penicillin nor less than 3 grams of bacitracin); and (vii) chlortetracycline, 200 grams (§ 558.105(f) (1) (iv) through (vii) was formerly § 135e,35(f), item 5. a through d). Norwich Pharmacal commented that the efficacy requirements for these drug combinations had been satisfied under contemporary efficacy criteria and that safety studies are being conducted pursuant to § 558.15 for penicillin alone, bacitracin alone, and chlortetracycline alone. On this basis Norwich requested that these drug combinations not be revoked from the regulations.

The Commissioner concludes that these drug combinations have been approved under contemporary efficacy criteria and that the required studies are being conducted to demonstrate the safety of penicillin, bacitracin, and chlorietracyline. Therefore, the Commissioner is vacating the proposed revocation of § 558.105(f) (1) (iv), (v), and (vii).

Because of the difficulty and complexity of research required by § 558.15 in the safety area, the Commissioner further concludes that, at the present time, the safety issues concerning bacterial drug resistance and resistance transfer caused by subtherapeutic antibacterial drug combinations should be first evaluated on the basis of studies that assess the safety of the antibacterials individually. The questions raised by § 558.15 are scientifically complex, and in many instances no model systems for testing are available. Research on a single antibacterial drug minimizes the variables in the studies, prevents masking of untoward effects, and produces more definitive data on the influence of the drug

on animal bacteria. Furthermore, the data may conclusively resolve theoretical questions raised. the

For these reasons the Commissioner concludes that these studies to demonstrate the safety of penicillin alone and bacitracin alone are sufficient to permit the interim marketing of penicillinbacitracin drug combinations, and the Commissioner is vacating the proposed revocation of § 558.105(f) (1) (vi).

10. Merck & Company questioned the absence from § 558.15 of a provision for a combination drug product containing procaine penicillin-streptomycin admin-

istered in drinking water.

The Commissioner advises that the deliberations and conclusions of the FDA Task Force on the Use of Antibiotics in Animal Feeds were directed at the use of antibacterial agents administered to animals in feeds. For this reason, the Commissioner has not included in § 558.15 drugs administered in other dosage forms, such as those administered in drinking water. The safety and effectiveness of drugs administered in these dosage forms are being independently considered.

11. Merck & Company also objected to the failure to list in § 558.15(g) (1) and (2) certain antibacterial premixes and drug combinations for which the firm is sponsoring safety or effectiveness studies. and the concurrent proposed revocation of the corresponding regulations for the

drug combinations.

The Commissioner agrees that Merck is sponsoring studies to demonstrate the safety of a penicillin-streptomycin premix. Therefore, Merck and this premix have been added to \$558.15(g) (1) with the indications for use set forth in §§ 121.225 and 121.256 (21 CFR 121.225 and 121.256). Because Merck is conducting studies to resolve the safety issues concerning this penicillin-streptomycin premix for these indications of use, the drug combinations made from this premix for which Merck is also conducting appropriate effectiveness studies may be validly marketed. These drug combinations and their sponsor, Merck, have been added to \$ 558.15(g) (2), and the proposed revocation of these drug combinations from \$ 121.256 is vacated.

Merck is also sponsoring effectiveness studies for the following drug combinations which contain erythromycin 4.6 to 18.5 grams per ton and are listed in § 121.210(c) (21 CFR 121.210(c)), table 1, items 2.1, 2.2; 2.3, and 2.4: amprolium 113.5 to 227 grams per ton, amprolium 113.5 to 227 grams per ton plus ethopabate 3.6 grams per ton, amprolium 113.5 to 227 grams per ton plus arsanilic acid 90 grams per ton, and amprolium 113.5 to 227 grams per ton plus ethopabate 3.6 grams per ton plus arsanilic acid 90 grams per ton. Since Abbott Laboratories, Inc. is sponsoring studies to resolve the safety issues concerning the crythromycin premix, these drug combinations may be marketed during the interim period. Therefore, the Commissioner has restored these amprolium combinations to \$558.15(g)(2) with Merck as their sponsor, and the proposed

revocation of these regulations is vacated.

12. Commercial Solvents Corporation commented that it is conducting studies pursuant to \$558.15 to resolve con-clusively the safety issues concerning zinc bacitracin. In addition, the company filed commitments to conduct studies to demonstrate the effectiveness of the following drug combinations:

a. Zinc bacitracin, amprolium, and

ethopabate:

· b. Zinc bacitracin, amprolium, ethopabate, and 3-nitro-4-hydroxyphenylarsonic acid:

c. Zinc bacitracin and arsanilic acid;

d. Zinc bacitracin, zoalene, and 3-nitro-4-hydroxyphenylarsonic acid.

The firm objected to the omission of these drug combinations from \$558.15(g)(2) and the proposed deletion of these drug combinations from Part 121 (21 CFR Part 121).

The Commissioner concludes that Commercial Solvents Corporation has filed commitments to resolve the safety of zinc bacitracin and to demonstrate the effectiveness of the drug combina-tions in question. Therefore, these drug combinations are eligible for marketing. The Commissioner has listed these drug combinations in § 558.15(g) (2) and is vacating the proposed deletion of these drug combinations from Part 121.

13. Elanco Products Company objected to the proposed deletion of various drug combinations containing hygromycin B for subtherapeutic usage from §§ 121.210 and 121.213 on the grounds that Elanco is sponsoring studies to resolve conclu-sively the safety of this drug.

Hygromycin B premix and drug combinations containing this drug are within the purview of § 558.15. The Commissioner concludes that the hygromycin B drug combinations proposed for deletion from the regulations are not supported by evidence of effectiveness meeting contemporary scientific criteria, and neither Elanco nor any other drug sponsor has submitted commitments to conduct studies to generate data to demonstrate the effectiveness of the hygromycin B drug combinations, which is also required by § 558.15. Therefore, the Commissioner further concludes that these drug combinations are properly deleted from the regulations.

14. Salsbury Laboratories objected to the proposed revocation of § 121.263, 3-5 dinitrobenzamide; § 121.264, sulfanitran; and § 558.35(g) (5) through (7) (formerly § 135e.31(g), table item 2a.2, b.2, and c.2), aklomide, because these drugs do not exhibit antibacterial activity under any currently approved uses when used as single ingredients and thus are not

subject to § 558.15.

The Commissioner concludes that the requirements established by § 558.15 are inapplicable to these drugs when they are used as single ingredients because they are not antibacterials. Nevertheless, the requirements are applicable when these drugs are combined with antibacterials. To market any such combination, a drug sponsor must have filed a commitment to conduct studies to resolve conclusively the issues concerning the safety of the antibacterial component. In addition, adequate effectiveness data meeting contemporary scientific criteria must be included in an approved NADA for the drug or the sponsor must have filed a commitment to conduct studies to generate such data.

The Commissioner has determined that § 121,263 lists no 3,5-dinitrobenza-mide-antibacterial combination drugs and, thus, is vacating the proposed revo-

cation of that section.

Sulfanitran-antibacterial tions were listed in § 121.264(e), and aklomide - antibacterial combinations were listed in § 558.35 (formerly § 1350.-31). None of these antibacterial drug combinations has been evaluated for offectiveness under contemporary scientific criteria, and no commitments to conduct the necessary effectiveness studies have been filed for them. The Commissioner therefore concludes that sulfanitran-antibacterial and aklomideantibacterial combinations are properly deleted from \$ 121.264 and \$ 558.35, respectively, and is revoking itoms a through d in the table of \$121.264(0) and paragraph (g) (5) through (8) of

§ 558.35.
15. E. R. Squibb & Sons, Inc., commented that the Commissioner incorrectly proposed to revoke the regula-tions in § 121.220(d) for use of nystatin in the feed of laying and growing chickens and growing turkeys at 50 and 100 grams per ton. Squibb contended that the drug is an antifungal agent and thus beyond

the scope of § 558.15.

The Commissioner agrees with this comment. The FDA Task Force on the Use of Antibiotics in Animal Feeds did not review antifungal products and made no recommendations concerning them. The Commissioner concludes that nystatin also has no significant effect on bacteria and viruses and is outside the purview of § 558.15. Therefore, he is vacating the proposed revocation of items 1, 2, and 3 in table 1 of § 121.220(d) for the use of nystatin as a single ingredient for growth promotion.

· However, the nystatin-antibacterial combinations used for subtherapeutic purposes are within the scope of \$ 558.15. These combinations were not approved on the basis of contemporary effectiveness criteria, and no commitments were filed to conduct the requisite effectiveness studies. Therefore, the Commissioner concludes that all nystatin-antibacterial combinations are properly do-

leted from \$ 121,220(d).

16. Dow Chemical Company objected to the deletion of \$558.175(e) (1) (iii) (formerly \$135e.46(e), item 6. a and o) from the regulations, which covers clopidol (0.0125%), roxarsone (0.005%), and bacitracin methylene disalloylate (4 to 25 grams per ton); and clopidol (0.0125%), roxarsone (0.005%), and zino bacitracin (4 to 25 grams per ton). The firm contended that these drug combinations had been evaluated and approved based on contemporary scientific criteria. and they are, therefore, outside the scope

. The Commissioner agrees with this · comment. The NADA's for these new animal drugs were approved specifically for use in poultry feeds on the basis of contemporary effectiveness criteria, and studies are being conducted pursuant to \$-558.15 to resolve the safety issues concerning the antibacterial components of these combinations. The Commissioner concludes that these drug combinations may be marketed when they are prepared from a drug listed in \$ 558.15(g) (1). Therefore, he is vacating the proposed deletion of these drug combinations from §.558.175.

17. The Diamond Shamrock Chemical Company questioned its omission from the list of approved sponsors in § 558.15 (g) (2), asserting that it is participating in cooperative studies to resolve the safety of bacitracin methylene disali-cylate as required by § 558.15, and that it has submitted protocols for in vitro and in vivo studies conducted with bacitracin methylene disalicylate in accordance with the requirements set by \$ 558 .-15(b) (1). Additionally, Diamond Shamrock asserted that it has letters from the holders of NADA's for bacitracin methylene disalicylate authorizing it to use the safety and effectiveness data in their

The Commissioner has reviewed the material submitted by Diamond Shamrock and concludes that the firm has complied with the intent and critical elements of § 558.15 by sponsoring studies to resolve the safety issues for bacitracin methylene disalicylate in animal feed. Although Diamond Shamrock failed to make certain technical filings by the appropriate date, it has substantially complied with the requirements of the regulation. Diamond Shamrock has now completed the necessary filings, and the Commissioner has added Diamond Shamrock to the list of sponsors of antibacterial premixes for bacttracin methylene disalicylate in § 558.15(g) (1).

18. Diamond Shamrock also objected to its omission from \$ 558.15(g) (2) as a sponsor of a chlortetracycline-arsanilic acid drug combination for use in swine feed and the proposed deletion of this combination from § 510.515 because it is actively conducting studies to meet the criteria imposed by § 558.15 and has filed the appropriate applications.

The Commissioner agrees with this comment. Therefore, this chlortetra-cycline-arsanilic acid drug combination has been added to \$558,15(g)(2) with Diamond Shamrock as its sponsor. The proposed revocation of this drug combination is vacated, and it has been added to § 510,515(c) (11).

19. A comment by American Cyanamid Company particularized the following specific instances in which it contended chlortetracyline drug combinations were improperly proposed for revocation from the regulations: "

(a) Section 121.208(d), table 1, 6(a) and \$ 121.210(a), 27, 22, 3,1 and 4.1

(b) Section 121,208(d), table 1, 6(d) and \$121.207(c), 2.1 and 3.1: :-

(c) Section 121.208(d), table 1, 6(e) and \$ 121.262(c), 1.1

(d) Section 121.208(d), table 1, 11(c) and § 121.207(c), 2.1 and S.1

(e) Section 121.208(d), table 1, 15(a)

and \$ 121.210(c), 2.11(u) (f) Section 121.208(d), table 1, 16 and \$ 558,195(g) (4) (formerly \$ 135e.51(g)

Section 121.225(d) (3) (v) (formerly § 121,225(f) (3) (v))

(h) Section 121.282(c), 1.24 and § 558.-515(f) (1) (ii) (formerly \$ 135e.66(f) (2)). (i) Section 121.208(d), table 1, 17 and

\$ 558.515(f)(1) (iii), (iv), and (v) (formerly § 135e.68(f) (3), (4) and (5))

(1) Section 510.515(b) (23) (formerly 144,26(b) (23))

(k) Section 510.515(b) (34) (formerly § 144.26(b) (34))

(1) Section 510.515(b) (43) (formerly

144.26(b) (43))

The Commissioner concurs with this comment. Items (a) through (f) relate to drug combinations containing therapeutic levels of chlorietracycline, and the drugs are indicated for therapeutic uses. Item (g) relates to increased rate of gain uses in lambs and growing sheep. Safety studies for chlortetracycline sponsored by American Cyanamid Company are underway and drug efficacy requirements for the product were satisfied by the National Academy of Sciences-National Research Council's Review. The claim proposed for revocation in item (h) does not involve antibacterials. These drug combinations are beyond the scope of § 558.15, and the Commissioner is vacating the proposed revocation of these drug combinations.

The effectiveness of the uses covered by items (i) through (l) was established on the basis of contemporary scientific criteria, and commitments to conduct studies pursuant to \$558.15 to resolve safety issues concerning chilortetra-cycline have been submitted. Therefore, the Commissioner concludes that these drug combinations may be marketed when manufactured from chlorietracycline premixes listed in § 558.15(g) (1), and he is vacating the proposed revocation of these drug combinations. These drugs have been listed in the appropriate regulations on the basis of the Commis-

sioner's determination. 20. Hess and Clark, Division of Rhodia, Inc., objected to the proposed revocation of paragraph (g) (3) and (4) of § 558.195 (formerly § 135e.51) providing for deco-quinate-zinc backtracin and decoquinatechlortetracycline combinations because these drug combinations are the subject of recent NADA approvals. Furthermore, the manufacturers of zinc bacitracin and chlortetracycline premixes have filed commitments to conduct studies pursuant to § 558.15 to resolve the safety issues concerning these antibiotics.

The Commissioner agrees with this comment. The data in the NADA's for these drug combinations were evaluated using contemporary efficacy criteria, and the Commissioner previously concluded that the data demonstrated the effectiveness of the combinations. In addition, commitments to conduct the investiga-tions required to establish the safety of the zinc bacitracin and chlorictracycline ingredients in the combinations have been filed in accordance with

§ 558.15. These drug combinations may be marketed when prepared from-zinc bacitracin or chlortetracycline premixes listed in § 558.15(g) (1). Therefore, the proposed revocation of these drug combinations from the regulations is vacated.

21. Abbott Laboratories and its ervthromycin theocyanate premix for use in cattle were omitted from \$558.15(g) (1). Abbott objected to this omission, and it also opposed the proposed revocation of 20 specific antibacterial drug combinations from 55 121.207, 121.210, 121.253, 121.292, and 510.515.

The Commissioner concludes that Abbott filed a proper commitment to conduct studies pursuant to § 558.15 to demonstrate the safety of erythromycin thiocyanate as a growth promotant in cattle. The appropriate material was filed by Abbott when the company realized that commitments were necessary to demonstrate the safety of the drug in each species of animal for which the drug is sought to be marketed. Therefore, the Commissioner has added Abbott's erythromycin thiocyanate premix to § 558.15 (g) (1), and he is vacating the proposed deletion of this drug from § 510.515.

Abbott filed suitable commitments to conduct studies to demonstrate the effectiveness of certain erythromycin drug combinations in accordance with § 558.-15. Based on these commitments the Commissioner concludes that those erythromycin drug combinations are eligible for interim marketing. Therefore, he is vacating the proposed revocation of the combinations of erythromycin and zonlene with or without arsanilic acid-and the combinations of erythromycin, amprolium, and arsanilic acid with or without ethopabate from §§ 121.207, 121.210, 121.253, and 121.292.

22. Abbott Laboratories also opposed the revocation of bacitracin, zoalene, and arsanilic acid drug combinations from § 121.207(c) subitems 2.4c, 3.4c and § 121.253(c) subitem 1.8d and chlortetracycline, bacitracin, arsanilic acid, and sodium arsanilate combinations from \$ 510.515.°

The Commissioner has received no commitment from Abbott or any other drug sponsor to conduct appropriate studies in support of the safety and effectiveness of these drug combinations. Therefore, the Commissioner concludes that these regulations are properly re-

23. Pfizer, Inc., objected to the pro-posed deletion of penicillin-streptomycin drug combinations from § 121.256(d), table 1, and the failure of the proposed amendments to list all antibacterials and antibacterial drug combinations for which Pfizer has filed proper commitments to conduct safety and effectiveness studies, namely, oxytetracycline, penicil-lin, streptomycin, and penicillin and streptomycin drug, combinations in § 558.15(g) (1) and (2).

The Commissioner has concluded that Pfizer has filed the proper commitments and is conducting the requisité studies to demonstrate the safety and effectiveness of these drug products. Therefore, the Commissioner is vacating the proposed deletion of the penicillin-strepto-

nycin drug combinations from § 121.256 d), table 1, and has added the oxytetracycline, penicillin, streptomycin, and penicillin-streptomycin drugs with Pfizer is their sponsor to §558.15(g) (1) and 2), respectively. The indications for use of these drugs have been amended to correspond to those permitted under rior approvals held for the products by Pfizer.

The Commissioner has carefully conildered the environmental effects of this action and, because the action will not ilgnificantly affect the quality of the numan environment, has concluded that an environmental impact statement is § 121.200 Definitions and interpretanot required. A copy of the FDA environmental impact assessment is on file with the Hearing Clerk, Food and Drug Administration, Rm. 4-65, 5600 Fishers Lane, Rockville, MD 20852.

Therefore, pursuant to provisions of the Federal Food, Drug, and Cosmetic Act (secs. 512, 701(a), 52 Stat. 1055, 82 Stat. 343-351 (21 U.S.C. 360b, 371(a))) and under authority delegated to the Commissioner (21 CFR 2.120), Parts 121, 510, and 558 are amended as follows:

1. In § 121.200 by adding a new paragraph (d) to read as follows:

tions applicable to Subpart C.

(d) Regulations prescribing conditions under which antiblotic, nitrofuran and sulfonamide drugs may be safely used in animal feed shall not be construed to relieve such drugs from the provisions of § 558.15 of this chapter where applicable.

2. In § 121.207(c) by revising the table to read as follows:

§ 121.207 Zoalene.

(c)

Zoalene in Complete :	Feeds for (Chickens and	Turkeys
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Principal ingredient	Grams per ton	Combined with—	Grams per ton	Limitations	Indications for use
I.1 Zoalene	113.5-170.3 (0.0125%- 0.01875%) 113.5-170.3		/	For turkeys grown for meat purposes only.	Prevention and control of coccidiosis.
I.2 Zoniene	0.0125%	Carbarsons (not , U.S.P.).	277-340. 5 (0. 025% - 0. 0375%)	For turkeys grown for meat purposes only; feed continuously beginning 2 weeks before blackhead and cocidiosis are expected and continue as long as prevention of blackhead and provention and control of cocidiosis is needed; withdraw 5 days before slaughter; as sole source of organic arsente.	Provention and control of coccidiosis; aid in the provention of blackfiead.
ac. [Reserved] d. Zoslene	113.5-170.3	Arsanilic acid	(0.01%)	For turkeys grown for meat purposes only; withdraw 5 days be- fore sloughter; as sole source of organic ar- senic.	Growth promotion and food efficiency, im- proving pigmenta- tion.
e. Zoalens	113. 5-170. 3	Sodium arsanl- late.	(0,01%)	_11_d0	Do.
L Zoalene	. 113. 5-170. 3	3-Nitro-4-hy- droxyphenylar-	(0.01%) 22.7–15.4	§ 121.262, table 1, item 2.1.	·§ 121.263, table 1, item 2.1.
.1 Zoniene	113.5	sonic feld.	,	For broiler chickens	Prevention and con- trol of coccidiosis.
2.2 Zoalene	(0.0125%) 113.5 (0.0125%)		90 (0.01%)	For broiler chickens; withdraw 5 days be- fore slaughter; as sole source of organic ar- sonic.	Prevention and control of coccidiosis; growth promotion and food efficiency; improving pigmentation.
2.3 Zoalene	(0.0125%)	Sodium arsani- lata.	(0.01%)	do	ì
2.4 Zoaleno 2.5-2.7 [Re-	(0.0125%)	3-Nitro-1-hy- droxyphenylar- sonic acid.	(0.01%) 22.7-45.4 (0.0025%- 0.005%)	do	Do.
served). 2,3 Zoaiene	113.5 (0.0125%)	Lincomycla	2	For broiler chickens; do not feed to laying chickens; to be fed as the sole ration; as lincomycin hydrochloride monobydrate provided by No. 00000, see § 510.600(c) of this chapter; 200lone provided by No. 025700, see § 510.600(c) of this chapter.	Increase in rate of weight gain, im- proved feed afficiency, and as an aid in the provention and control of coccidiosis,
a: 2.1, 2.2, or 2.4:	- 118.5	Penicilia	2.4-50	For broiler chickens; as procaine penicilling	Growth promotion and feed officiency.
b. [Roserved]	118.5	Bacitracin	. 4-50	For broiler chickens; as bacitracin methylene disalleylate, or zine bacitracin.	Do.
6: 2.1	na.s	Chlortetracycline	100-200	For broiler chickens; as prescribed in § 121,- 208(d), table 1, Itam - 6, as chlorietracycline - hydrochloride.	\$ 121,208(d), table 1.

ZOALENE IN COMPLETE FEEDS FOR CHICKENS AND TURNETS-Continued

-Principal ingrodient	Grams per ton	Combined with-	Grams per ton	Limit	oilons	Indication	s for use
1. 21	113.5	Bacitracin	100-500	For broiler chickens: as prescribed in § 121 233(d), table 1, item 6.1; as zine becitreein.		As prescribe § 121 233(i item 6.1.	ed in
g1.[Reserved]	113.5	Erythromycin	4.6-18.5	For breller	elilekens; 03 yelu ililooy-	Growth pro	motion and ney.
kn. [Re- served] o. 2.1, 2.2	113.5	do	02.5-165	£ 121,222(d).	Items 1.1,	1 121.222(d), 2.1, 4.1. Developmen	items 1.1,
3.1 Zoaleno	36.3-113.5 (0.00177- 0.012573)	**************	********	ration not	(grower to be fed to 14 weeks of	Development immunity cels.	nt of setting to coccidi-
	_			Grewing o	engiribno	Amount of feed for bir grou	ga pa azo
••	•					Starter ration	Graver ration
`				Severe expe Light to n posure.	sure	lon !	Grams per ton 73.4-113.5 (0.0083%- 0.0123%) 26.3-76.4 (0.004%- 0.0083%)
3.2 Zoalene	36. 3-113. 5 (0.00452- 0. 01255%)	Arsanillo aeld	(0° 01.29)	For replacement chick- ens; in complete feed only; grower ration not to be fed to birds over 14 weeks of age; withdraw 5 days be- tore chambier; as sele source of engands ar- rende, as follows:		Developme: tive imme coccidiosis promotion efficiency; ing pigme	inity to s: growth 1 and feed : Improv-
-		G	rowing cond	lilons	Starler ration	Grower	
	,		xposure moderale ex		Groups per ton. 113.5 (0.0127); 73.4-113.5 (0.00887; 0.0127);	0.008377	<u>5</u>
3.3 Zoalene	30.3-113.5 (0.004% 0.0125%)	Sodiam arganilate,	- 60 (0°0125)	ens; in co only; gro not to be over 14 w withdraw fore slave	ment chick- mpleto feed weer ration fed to birds tecks of age; 6 days be- biers as tole arganie ar-	Development scrive immediate promotion fred efficie improving pigmentat	nunity to secorth ney;
-		G	rowing condi	tions	Starter ration	Grower ration	
· · · ·	5011	.	rposure moderate es	posure	Grams per los 113.6 (0.0122% 75.4-113.5 (0.0063% 0.0122%) (0.008373	ton
					, .		•

ZOALENE DE COMPLEM FEEDS FOR CHICKENS AND TURKEYS-Continued

Principal ingredient	Grams per ton	Combined with-	Grams per ton	Limi	atlons	Indications for use
3.4 Zoalene	30, 3-112, 5 (0, 004%- 0, 0126%)	3-Nitro-L-hydroxy- phenylarsocie scid.	22. Y-45. 4 (0. 0025% 0. 005%)	For replacement chickens; in complete feed colly; grower ration not to be feed to birds over 14 weeks of age; withdraw 5 days before slaughter; as sole source of erganic arsenic, as follows:		Development of active immunity to coo- cidiosis; growth pro- motion and food of- ficiency; improving pigmentation.
			Frowing cond	litions	Starter ration	Grower ration
		Severe o	exposure	Grams per ton xposure 112.		Grams per ton 75.4-113.5
	-	· Light to	moderate exposure		(0.0125%) 75.4-113.5 (0.0083%- 0.0125%)	0.0125%) 38.2-75.4
a. 3.1, 3.2, or 3.4	36.3-113.5 (0.004%- 0.0125%)	Penicillin	2.4-50	Replacement as procein	nt chickens; no ponicillin.	Growth promotion and feed efficiency.
bd. [Reserved] c. 3.1	86.3-113.5 (0.004%- 0.0125%)	Chlorietracycline.	. 100-200	as present	nt chickens; bed in § 121 ble 1, Items 6 s chlortetra-	As prescribed in § 121 203(d), table 1, items 6 and 11.
£ 3.1	36. 3-113. 5	Bacitracin	100-500	208(d), table 1, items 6 and 11, as chlortetra- cycline hydrechloride. For replacement chick- ens; as prescribed in § 121.233 (d), table 1, item 6.1; as zine bact- tracin.		As prescribed in § 121.233(d), table 1, itom 6.1.
gl. [Reserved]		79 _42				
j. 3.1, 3.2 kn. [Ro-	36.3-113.5	Erythromycin	1.6-18.5		ment chick- rythromycin ite.	Growth promotion and feed efficiency.
served] o. 3.1, 3.2	36.3-113.5	do	92.5-185	§ 121.292(d) 1.1, 1.2, 2.1	, table, items i, 2.2, 4.1, 4.2.	§ 121.202(d), table, items 1.1, 1.2, 2.1, 2.2, 4.1, 4.2

§ 121.208 [Amended]

3. In § 121.208 Chlortetracycline paragraph (d) is amended:

a. In table 1 by deleting subitems a present text in subitem a following item through e following item 2; by deleting 11 and designating the subitem "[Resubitems a and b following item 3; by served]".

deleting subitem a following item 4; by deleting subitems a through c following item 5; by deleting subitems a and b following item 7; and by deleting the present text in subitem a following item 11 and designating the subitem "[Reserved]"

b. In table 2 by deleting subitem a following item 1.

V

- 4. In § 121.210(c) by revising the table to read as follows:
- § 121.210 Amprolium.
 - (c) * * *

- TABLE 1-AMPROLIUM IN COMPLETE CHICKEN AND TURKET FEED

					·····
Principal _ingredient	Grams per ton	Combined with-	Grams per ton	Limitations	Indications for use
1.1 Amprellum	113.5-227 (0.0125%- 0.025%)	************	aq b b u a u u u u u u	For lurkeys	Prevention of coccidiosis.
- a. 1.L.,	113.5-227	Penicilin	2.4-50	For turkeys: as pro- caine penicillin.	Growth promotion and feed efficiency.
bd. [Reserved] c. 1.1	113.5-227	Bacitracia	4-50	For inrkeys: as baci- tracin methylene dis- alloylate.	Do.
1 [Reserved] g. l.l.	113.5-227	Penicillin plus streptomycia.	90-180	Fer turkeys; § 121,256(d), table 1, item 7.1.	121.228(d), table 1, item 7.1.
h. [Reserved]	113.5-227	Arsonilië oeld	(G 0129) 80	For turkeys; withdraw 5 days before slough- ter; as sole source of	Growth premotion and feed efficiency; improving pigmenta-
j. 1.1	113.5-227	Sódium arsanliate.	(0.0123)	organic artenic. For turkeys; withdraw	iion. Do.
k. 1.1	113.5-227	3-Nitro-i- bydroxyphenyl-	35 <u>1-17 (</u> (0 01 (2)	For turkeys; withdraw 6 days before claughter. 121,22, table 1, item 2.1.	\$ 121.262, table 1, item 2.1.
L 1.1	113.5-227	arsonio acid. Bacitracia	100-300		\$ 121.233(d), table 1,
m. 1.1		Penicillin plus baclimein.	100-500	flem 8.1. § 121.233(d), table 1, ftem 8.2.	item 8.1. § 121.233(d), table 1, item 8.2.
2.1 Amprolium	113.5-227 (0.0125%- 0.025%)			For broiler chickens; for replacement chickens where immunity to coccidions is not do-	Prevention of coccidiosis.
2.2 Amprollum	113, 5-227 (0, 0125%) 0, 025%)	Ethopabate	(6.000 T)	replacement chickens	Do.
2.3 Amprolium	113, 5-227 (0, 0125%- 0, 025%)	Aremille sold	(අ ගැනි	coccidieds is not de- sired; not for laying hens. For brotter chickens; for replacement chickens where immunity to coccidicate is not de- sired; as sele source of organis criscale; with- draw 5 days before	Prevention of eocci- diceis; growth pro- motion and feed effi- ciency; improving pigmentation.
2.4 Amprolium	113.5-227 (0.0125% 0.025%)	Ethopobote Arsonillo acid	(0.015) (0.00459) (0.00459)	For broiler chickens; for replacement chickens	Do.
served) 2.8 Amprollum	113.5-227 (0.0125% 0.025%)	3-Nitro-4-hydrox- yphenyl- arsonic acid.	22.7-15.4 (0.002575 0.00375)	For broiler chickens; for replacement chickens where immunity to coccidicis is not desired; as not enganic anenie; withdraw 5 days before singulate.	Do.
2.9 Amprolium.	113.5-227 (0.0125%- 0.025%)	Ethopabate + 3-Nitro-4-hydrox- yphenyl- arsonic acid.	(0.0004)3.6 (0.0004)3.4 (0.00033) (0.00033)	replacement chickens replacement chickens where immunity to coccidicals is not do- sired; as so's source of organic arrenic; with- draw & days before	Do.
2.10 Amprolium.	113.5 (0.0125%)	Bthopabate	3,6 (0,000);?) 45,4 (0,000;?) 2-4	drochleride menchy- drate; withdraw 5 days before slaughter; az sole scurce of ampro- lium and organic ar-	For increase in rate of weight gain; im- proved feed enticiners, and pixmeniation; as an aid in the pre- vention of ecceldicsis in broiler chickens,
2.11 Amprolium.	118,5 (0.0125%)	Ethopabate Lincomycin	(0.000) 55 (0.000) 55	seule. For broller chickens; not for laying chick- ens; as incomycin hydrochiloride mono- hydrate; as sole source of amprollum.	Per increase in rate of weight gain; improved feed efficiency; as an aid in the prevention of cocideris in broiler chickens.

Table 1—ÁMPROLIUM IN COMPLETE CHICKEN AND TURKEY PEED-Continued

Principal ingredient	Grams per ton	Combined with—	Grams per ton	Limitations	Indications for use
2.12 Amprollum	118, 5 (0. 0125%)	Bambermyct s Ethopabato	2-3 38.3 (0.004%)	For broller chickens; feed continuously as the sole ration; as sole source of amprollum; amprollum; ethopabate as 'provided by No. 00006 in § 510.600 (c) of this chapter, bumbermycins as provided by No. 00005 in § 510.600 (c) of this	As an ald in the provention of cocoidiosis where severe exposure to encedidesis from E. acervalina. E. marima, and E. brunetti is likely to occur. For increased rate of weight gain, and improved feed efficiency.
2.13 Amprollum.	113. 5 (0. <u>0</u> 125%)	Bambermycins Ethopabate Roxarsone		chapter. For broiler chickens; feed continuously as the sole ration; as sole source of amprollum and organic arsenic; amprollum and ethopabate as provided by No. 000006 in \$510.600(a) of this chapter, roxarsone by No. 017210, bambermyeins by No. 000039. Withdraw 5 days before slaughter.	As an aid in the pro- vention of coccidiosis where severe ox- posure to coccidiosis from E. acervaline. E. maxima, and E. brunett is likely to occur. For increased rate of weight gain, improved feed effi- cioney, and im- proved pigmentation.
2.14 Amprolium.	113.5 (0,0125%)	Bambermycius + Ethopabaio + Roxarsone	1 1	do	As an aid in the pro- vention of coccidiosis. For increased rate of weight gain, im- proved feed officionoy
2.15 Amprollum.	113.5 (0.0125%)	Bambermychs + Roxarsone	0. 00375%) 2-3 22. 8-34. 1 (0. 0025%- 0. 00375%)	For broiler chickens; feed continuously as the sole ration; as sole source of amprollum and organic arsenic; amprollum as provided by No. 00006 in § 510.500(c) of this chapter, rozarsone by No. 017210, bamber-mycins by No. 00033. Withdraw 5 days before daughter.	and improved pigmentation.
в. 2.1, 2.2	113.5-227	Penicillin	24-50	fore slaughter. As procaine penicillin	Growth promotion and feed efficiency.
bd. [Roservod] e. 2.1, 2.2, or 2.9.	113, 5-227	Bacitracin	4-50	As bacitracin methylene disalicylate.	Do.
fg. [Reserved] h. 2.1 or 2.2	113. 5-227	Bacitracin	100-200	As bacitracin methylene disalicylate.	respiratory disease (air-sae infection)
i. 2.1 or 2.2 j. 2.1 or 2.2		Chlorietracycline. Penicillin plus streptomycin.	100-200 90-180	As prescribed in § 121 208(d), table 1, item 6. § 121.256(d), table 1, item 5.1.	(nonspecific in- featious enteritis). § 121.208(d), table i, item 6. § 121.256(d), table 1, item 5.1.
km. [Re- served] n. 21	113.5-227	Sodium arsavilate.	90 (0, 01%)	§ 121.254(c), table, item 1.	Growth promotion and feed efficiency; improving pig- mentation.
or. [Reserved] 8. 2.1, 2.2, 2.3, and 2.4. t. 2.1, 2.2, 2.3, and 2.4.	113.5-227 113.5-227	Erythromycindo	4.6-18.5 92.5-185	As erythromycin thio- cyanata. § 121,202(d), table, items	Guardh manadan
u. 2.2		Chlortetracycline.		low calcium feed con- taining 0.8 percent dietary calcium and 1.5 percent sodium Sulfate; feed con- tinuously as sole ra- tion for not more than	respiratory discase caused by strains of Mycoplasma gal-lisepticum susceptible to chlortotrapyoline.
v. 2.1 or 2.2	113.5-227	Bacitracin	100-200	the first3 weeks of life. § 121.233(d), table 1, item 6.1.	§ 121.233(d), table 1, item 6.1.

- Table 1—Amproxium de Complète Chicres and Turkey Frid—Continued

Principal ingredient	Grams per ton	Combined with-	Grame. per ton.	1	Umitations		Indication	ns lee use
8.1 Amprollum	30.3-113.8 (0:004% 0.0125%)		*		placement chic	k- 1		ent of active y to coccid-
•	•							
•	-		<u>.</u>		Amount of	pl v mbi	olium in s equorg og	iced for birds
		:	Growing condition	ns	Up to 5 weeks of 050	8	om 5 to weeks of ago	Over 8 weeks of 0.30
· .		•	Severe expo	oure orie	Granu per ton 113.5 (0.012575)	,3	Grema or ion 2.6-113.5 (0.005%-	Grans per ton 21.3-113.5 (0.04%- 0.0125%)
•			Moderate ca sure to coccidiosi Slight expo to coccidi	ı.	72.6-113.6 (0.005%- 0.0125%) 20.3-313.6	3	(0.00%) 1.00%) 1.00%) 1.00%) 1.00%) 1.00%)	(0.004%- (0.0125%)
			15 6065101	UEZS.	(0.001%- 0.012%)		10125	(0.004% 0.0125%)
3.2 Amprolium	30, 8-115; 8- (0, 004%- 0, 0125%)		(en in	eplacement ch ; as specified a 3.1 of this ta belone & claya simplifer; as : rea, of organis e.	ble; bo-	immu locis; g modor eniden pigmer	ment of active dity to coccid- rowth pro- s and feed ey; improving mailen.
3.3 Amprollum	30.3-113.5	Sodium arrinilaie.	(0'0125) 00		·		Da	
a. 3.1 or 3.2	(0.004% 0.6125%) 36,3-113.5	Penicilla	2.4-50	As pr	ocaino penielili	n	Crowth :	promotion d efficiency.
bg. [Re- served] h. 3.1	38.3-133.5	Backmein:	160-200	As bo met lote cin.	citracin, bacilin byleno dicall or sino baci	rio or- rio	respira fair-ent	nt of chronic tory disease (infection) ne comb
		,	í	1		1	0115 en	ecillé infecti- teritis).
1. 3.1	36.3-113.5. 36.3-113.5.	Chlortoiracycline. Penicillin plus streptomycin.	100-200 90-160	As pr 2030 1 121.2 Sten	escribed in § 1 d), table 1, item 20(d), table	1,	E 1771 7272	(d), table 1, (d), table 1,
k-l [Re- served] m. J.l, 32	30.3-113.5	Erythromycla	4.6-18.5					
n. 3.1, 3.2	38.3-113.5	do	92,5-365	1 111	ythromycla ti nate. 22(d), table, it 1.2, 21, 22,	Œ,	121.29 items 1 4J, 42	promoticu and iciercy. 2(d), table, 1,12,21,22
op. [Reserved] q. 3.1	30.3-113.5	3-Nitro-4- hydroxy- phenylarsonic acid.	22.7-15.4		sie, tabla 1, li	. 1	§ 121.562 Item 1.	table I,
rs. [Reserved]	72.6-113.5		*******	For b	roller chiekens.		Preventi	on of coccidio- ted by E.
4.2 Amprolum	(0.005%- 0.0125%) 72.6-113.6 (0.005%- 0.0125%)	Arsanille acid	(<i>G</i> 0129)	fore	broiler ehick bdraw 5 days sloughter; as see of organic c.	950	Preventi diceis tenella promo efficien	only. on elececi- caused by E. only: growth tion and feed cy; improving
4.3 Amprollum	72, 6-113, 5 (0, 005%- 0, 0125%)	3-Nitro-i- hydruxy- phenylarsonic	0.00%) (0.00%) (0.00%)	d)		Do.	ijouon.
z. 4.1 bg. [Re-	72.6-113.5	aeld. Penicillin	24-50	Aspr	ocaino penicilli	1	Growth ;	promotion and leiency.
served) h. 4.1	72.6-113.5.	Backrack	100-200	eda edb edb edd	eliracia methyl Noylato, or i itracia.	ieno ino	ול סמם	nt of chronic tory discuse infection) us comb (non-
1, 41	72.6-113.5	Chlorietrocycline.	100-200	As pr	escribed in § 1 (d), table 1, lies 20(d), table	21 1 Q.	enterit 121.208 Item 0.	(d), tablo 1,
J. 43	72.6-113.5	Penicillin plus streptomycin.	90-160	ilen	2010), 10013 25.1.	**	Home	(d), tabla 1, J.
k-m. [Reserved] n. 4.1	72. 6-113. 5	Sodium orzanilate.	. 20	alau seu	iraw 5 days be ighter; as i	oro olo nio	impro	promotion and leiency; ring
£1_Amprollum	113.5 (0.0125%)			Form	nic. podernio outbre pocedioxis in chickens; comi for 2 weeks.	aks	pigmen Trestme coccidi	italion. nt of
6.1 Amprolium	0.025%)				for 2 weeks. evero outbreak cidlocis in lay kens: odmini 2 weeks.		Do.	
	•	•	•		- ··•		-	

TABLE 1-AMPROLIUM IN COMPLETE CHICKEN AND TURKEY FEED-Continued

Principal ingredient	Grams per ton	Combined with—	Grams per ton	Limitations	Indications for use
7.1 Amprollum	(0.0125%)	Ethopabate	(0.004%)	For broiler chickens; for replacement chick- ens where immunity	As an aid in the provention of coccidiosi where severe expe
				to coccidicals is not desired; not for chick- ons over 16 weeks of age.	where sovere expensive to coordinate from E. acceptalina E. maxima, and E brunetti is likely to
8. 7.1	**********	Bacitracia	4-50	For broiler chickons; do not feed to laying chickens; as solo source of amprollum;	To aid in prevention o
		-		source of amprollum; not for use as a treat- ment for outbreaks of coccidiosis; as bacitra-	sovere exposure to coccidiosis from E acerulina, E, max ima, and E, bruneti is likely to occur; fo
•				cin methylene disa- licylate as provided by code No. 000794 in 5.510.600(c) . of this	increased rate of weight gain in broile chickens raised in floor pens.
				chapter; feed as the sole ration from the time chickens are placed on litter until	and bern
				coccidiosis is ordinar-	or where we provide to making have
		,		ily a hazard; approval for this combination granted to firm No. 00006 as identified in § 510.600(a) of this	
b. 7.1		3-Nitro-4-hy- droxyphenyi- arsonic acid:	(0.005%)	chapter. For broiler chickens; do not feed to laying chickens; withdraw 5 days before slaughter;	Do.
				as sole source of am- prolium; do not use as	
• • •			٠, ٦	breaks of cocidiosis; feed as the sole ration from time chickens are placed on litter until past the time when cocidiosis is or-	
•	, ,		,	nitro - 4 - hydroxy-	
-		· • •	٠	phenylarsonic acid as provided by code No. 017210 in § 510.600(e) of this chapter; approval	; ;
٠	, , ,			for this combination granted to firm No. 000008 as identified in \$510.600(c) of this	
8.1 Amprolium	. 113.5	#*****************		chapter. For laying chickens	Provention of
9.1 Amprolium	(0, 0125%) 112, 5 (0, 0125%)	2-Nitro-4- hydroxy- phenylarsonia sold:	34 (0.00375%)	For floor raised broiler chickens: do not feed	For increased rate of weight gain and as an aid in the pre- vention of coccidiosis
	, er	Ethopabate	36.3 (0.004%)	to laying chickens; withdraw 5 days before slaughter; as sole source of amprollum and organic arsenic; as bacitracin methyl-	posure to coccidiosis from E. accruding.
*.;	•	Bacitracia	5-35 -	one disalicylate; do not use as a treatment for outbreaks of coccidio- sist feed as the solo	E. matima, and E. brunetti is likely to occur in broiler chickens raised in floor pens.
			,	ration from time chickens are placed on litter until past the time when coccidiosis	•
	•		٠	is ordinarily a hazard; amprolium and other pabate as provided by code No. 00006 to	
	1 ,			\$510.600(c) of this chapter; bacitracia mathylana disallers	
	. ,			late as provided by code No. 000794 in \$510.600(c) of this chapter, 3-nitro-4-hy- droxyphonylarsonlo	,
		·	-	acid as provided by code No. 017210 in § 510.600(a) of this chapter; approval for	•
		, ,		this combination granted to firm No. 000003 as identified in \$510.800 (c) of this chapter:	

TABLE 1-AMPROLIUM IN COMPLETE CRIERTY AND TURKET FAM-Continued

Principal ingredient	Grams per ton	Combined with-	Grams' per ton-	Limitations	Indications for non.
10.1 Amprolium.	118.5 (0.012553)	3-Nitro 4-by- droxyphenyl- arsonic acid. + Ethopelate: Bacitracin methylene disalloylate:	(0.0035/2) (0.0035/2) (0.00133) (0.00133)		For increased rais of weight gain, imported isset efficiency, and as an aid in the provention of occalidate where sween exponeurs to occalidate from E. secretalisate. E. menker, and E. kennatit is likely to occur in broiler chickers raised in 1800 pents.

5. In § 121.213(d) by revising tables 1 and 2 to read as follows:

§ 121.213 Hygromycin.B.

TABLE I-HYGRONICH B IN COMPLETE CHIEREN FRED

Principal ingredient	Grams per ton	Combined with-	Grama: per ton:	Limitations	Indications for use
1. Hygromydin B	8-12				Control of injestation of large roundworms. (Ascarls galli), cecal worms (histority galliuse), and capillary worms (Capillaria. ecignato).
ng. [Reserved] h: Hygromycin B	8-12	Penicillin.	100	i 121.255(d), table 1,	£ 121.236(0), tabla 1,
1. Hygremycin B	8-12	Penicillia plus bacitracia.	100-800	1 121.256(d), table 1, items 11.1.161.	item 9.1. 1 121.220(d), table 1, them: 11.1, 16.1.
j. Hygunyck B	8-12	Penicillin plus streptomycin.	90-150	\$121.258(d), table 1, item & i.	\$ 171.2%(d), table 1,
k. [Reserved] I. Hygromycla B	8-12	Backtrack	100	As becitmein methylene disalleybia, or sino becitmein.	Treatment of chronic respiratory disease (air-eac injection), hine comb (non- specific infections enteritie).
m. [Reserved] n. Hygramycla B	8-12	Chlorietrooyeline.	100-200	\$ 121.208(d), table 1,	§ 121.208(d), table 1, item 0.

Table 2—Hydronych B in Complete Swife Fred

			•		
Principal ingredient	Grams per ton	Combined with—	Grams per ton	Limitations	Indications for use
1. Hygromycin B	12			For swiner withdraw 43 hours before eleugh- ter.	Control of infectation of large round- warms (Asserier sits), nedular worms (Ossopha- gestariums deuts- tion), and whip- worms (Trichuria sits),
ab. [Reserved] c. Hygromyrin B	12	Chloricimeyeline_	100-200	For swins, as chler- tetracycline bydrochlo- ride; withdraw 43- hours before thresh-	Treatment of bacto- rist swins enterities
		• •		ici.	

⁻ FEDERAL REGISTER, VOL. 41, NO. 36-WEDNESDAY, FEBRUARY 25, 1976

§ 121.220 [Amended]

6. In § 121.220 Nystatin, paragraph (d) is amended in the table by deleting subitems a through f following items 1, 3, 4, and 6.

7. By revising § 121.225 to read as follows:

§ 121.225 Antibiotics for growth promotion and feed efficiency.

The antibiotics listed in this section may be safely used in animal feeds as an aid in stimulating growth and improving feed efficiency, in accordance with the following prescribed conditions:

(a) Procaine penicillin. Procaine penicillin as follows:

(1) Procaine penicillin is the procaine salt of the antibiotic substance produced by the growth of Penicillium notatum or Penicillium chrysogenum or the same antibiotic substances produced by any

other means. (2) The quantities of the antibiotics referred to in this paragraph refer to activities equivalent to those of the appropriate antibiotic master standards.

(3) It is used or intended for use: -(i) In the feed of chickens, turkeys, and pheasants in an amount not less than 2.4 grams nor more than 50 grams per ton of finished feed,

(ii) In the feed of quail not over 5 weeks of age, in an amount not less than 5 grams nor more than 20 grams per ton

of finished feed.

(iii) With streptomycin in the feed of chickens and turkeys at a level of 2.4 to 7.5 grams per ton of procaine penicillin with 12.0 to 37.5 grams per ton of streptomycin and in the feed of chickens at a level of 3.75 to 7.5 grams per ton of penicillin and 18.75 to 37.5 grams per ton of streptomycin.

(iv) With streptomycin in the feed of swine at a level of 1.5 to 7.5 grams per ton of pericillin combined with 7.5 to 37.5 grams per ton of streptomycin in

the finished feed.

(v) In the feed of swine in an amount not less than 10 grams of penicillin nor more than 50 grams penicillin per ton of finished feed.

(b) Zine bacitracin. Zine bacitracin as follows:

(1) Zinc bacitracin is the zinc salt of the antibiotic substance produced by growth of Bacillus subtilis var. Tracy or the same antibiotic substance produced by any other means, and for the purposes of this paragraph refers to zinc bacitracin or feed grade zinc bacitracin.

(2) The quantities of the antibiotics referred to in this paragraph refer to activities equivalent to those of the appropriate antibiotic master standards.

(3) It is used or intended for use: (i) In the feed of chickens, turkeys, and pheasants in an amount not less than

4 grams nor more than 50 grams per ton of finished feed.

(ii) In feed for growing cattle, in an amount providing not less than 35 milligrams nor more than 70 milligrams per animal per day.

(iii) In the feed of quail not over 5 weeks of age, in an amount not less than 5 grams nor more than 20 grams per ton

of finished feed.

(iv) In the feed of swine, in an amount not less than 10 grams nor more than 50 grams per ton of finished feed.

(c) Bacitracin methylene disalicylate. Bacitracin methylene disalicylate as follows:

(1) Bacitracin methylene disalicylate is the methylene disalicylate salt of the antibiotic substance produced by growth of Bacillus subtilis var. Tracy or the same antibiotic substance produced by any other means, and for the purpose of this paragraph refers to bacitracin methylene disalicylate or feed grade bacitracin methylene disalicylate.

(2) The quantities of the antibiotics referred to in this paragraph refer to activities equivalent to those of the appropriate antibiotic master standards.

(3) It is used or intended for use: (i) In the feed of chickens and turkeys in an amount not less than 4 grams nor more than 50 grams per ton of finished

feed.

(ii) In the feed of swine, in an amount not less than 10 grams nor more than 50 grams per ton of finished feed.

(d) Chlortetracycline. Chlortetracy-

cline as follows:

(1) Chlortetracycline is the antibiotic substance produced by growth of Streptomyces aureofaciens or the same anti-biotic substance produced by any other means, and for the purposes of this paragraph refers to chlortetracycline or feed grade chlortetracycline.

(2) The quantities of the antibiotic referred to in this paragraph refer to activity equivalent to that of the appropriate antibiotic master standard.

(3) It is used or intended for use:

(i) In the feed of chickens and turkeys, in an amount not less than 10. grams nor more than 50 grams per ton of finished feed.

(ii) In the feed of mink, in an amount not less than 20 grams nor more than 50 grams per ton of finished feed and also as an aid in increasing pelt size.

(iii) In the feed of horses up to 1 year of age in the amount of 85 milligrams per head per day, where such horses are not to be slaughtered for food purposes.

(iv) In the feed of swine, in an amount not less than 10 grams nor more than 50 grams per ton of finished feed.

(v) In the feed of lambs and growing sheep, in an amount not less than 20 grams nor more than 50 grams per ton of

(vi) In the feed of calves, in an amount not less than 25 milligrams per head per day nor more than 70 milligrams per head per day in finished feed.

(vii) In the feed of growing cattle, in an amount equal to 70 milligrams per

head per day in finished feed.

(viii) In the feed of calves up to 250 pounds in weight, in an amount providing 0.1 milligram per pound of body weight per day in milk replacers or starter feeds.

(e) Erythromycin thiocyanate. Eryth-

romycin thiocyanate as follows:

(1) Erythromycin thiocyanate is the thiocyanate salt of the antibiotic substance produced by the growth of Streptomuces eruthreus or the same antiblotic substance produced by any other means.

(2) The levels of antibiotics listed are expressed in terms of the weight of erythromycin master standard. One gram of erythromycin thiocyanate is equivalent to 0.925 gram of erythromycin master standard.

(3) It is used or intended for use:(i) In the feed of chickens, in an amount not less than 4.6 grams nor more than 18.5 grams per ton of finished feed.

(ii) In the feed of turkeys not over 12 weeks of age, in an amount not less than 9.25 nor more than 18.5 grams per ton of finished feed.

(iii) In the feed of feedlot beef cattle at 37 milligrams per head per day.

(f)-(v) [Reserved]

(w) Labeling requirements, (1) To assure safe use, the label and labeling of the additive, any combination of additives, and any feed additive supplement. feed additive concentrate, or feed additive premix prepared therefrom, shall bear, in addition to the other informa-tion required by the act, the following:

(i) The name of the additive or addi-

tives.

(ii) A statement of the quantity of each contained in any mixtures.

(iii) A statement of the conditions for

which the feed is to be used.

(iv) Adequate mixing directions to provide a complete feed with the proper concentration of the additive or additives, whether or not intermediate feed additive supplements, feed additive concentrates, or feed additive premixes are also used.

Note: § 121.225(w) was amended by an order published in the Federal Register on March 20, 1965, 30 FR 3708, effective January 1, 1966, and was stayed at 30 FR 12353, September 28, 1965.

§ 121.232 [Reserved]

8. By revoking § 121.232 Bacitracin and reserving it for future use.

9. In § 121.233(d) by revising tables 1 and 2 to read as follows:

§ 121.233 Zine bacitracin.

TABLE 1-ZING BACHBACIN IN COMPLETE CHICKEN AND TUBERT PERD

	, .			1 .	
Principal ingredient	Grams per ton	Combined with—	Grams per ton	Limitations	Indications for use
1.1. Bacitracin	10-50			For chickens: 10 grams per ton first 4 to 6 weeks of egg production; 10-to grams per ton for remainder of egg-laying period; as sing backmen.	Maintaining or increasing egg production.
21 Backrack	50-100		*********	rine melimein. For chickens; as rine becitracia.	Prevention of chronic respiratory disease (air- ers infection); birst comb (nonspecific in- fections enteritis). Prevention of infections rinucitis, blue comb (numd fever). Maintaining or increasing hatchability of eggs. During times of stress, prevention of different named in this rection caused by organisms surreptible to bacture.
3.1 Bacitracin	50-100		*********	. Per turkeys; as ring bacitmein.	Provention of infectious rinusitis, blue comb (mud fover).
4.1 Backmein	100			For chickens; as that bedievels.	Maintaining or increasing hatchability of eggs.
5.1 Backracin	. 100				During times of stress, provention of dicease: named in this rection caused by myanisms
0.1 Bačitneju	100-500	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	******	do	l'Irealment of chronic
			v rhedam shin salan	in addition of the same and the same and the same of t	respiratory disease (air can infection); blue comb (nonspectionine tiqua enteritis).
				The ablahama 100.700	ticus enteritis).
6.2 Bacitracia plus penicillia.	100-500		*********	For chickens: 100-500 grams of combination, containing not less than 60 percent nor	Da
·				containing not less than 60 percent nor more than 75 percent of hadiracin except that it contains not	
	,			ting 14 contains not more than 125 grams of penicillin; as proceeding penicillin plus sing backingth, \$121.210, table 1, items 2.1, 3.1, and 4.1. As prescribed in \$121.—210(c), table 1, item 2.2.3.	
b. 6.1		Amprollum	36.3-227 113.5-227	\$ 121.210, table 1, items 2.1, 3.1, and 4.1.	\$ 121,210, table 1, items 21,33, and 4.1. \$ 121,210 (c), table 1,
D. V.1	1	ernobapare.	3.0		
. c. 6.1	1	Hygromycin B	l .	For chickens	} 121.213(d), table 1,
. d. 6.2	100	do	8-12	For chickens: 100 grams of combination; not less than 25 grams of pentelliin nor less than 10 grams of backtracin.	Do.
ē. 6.7	100-200	Zoalcue	36.3-313.5	fograms of backtracia. For elackens; not for laying chickens; as prescribed in § 121. 207(a), table, items 2.1 and 3.1.	§ 121.207(c), table, Hem. 2.1 and 3.1.
	-			207(a), table, items 2.1 and 3.1.	
7.1 Backtrackn	1.		,	ration; as rice loci- tracia.	inlity of chicks due to organisms succeptible to zing bedirede
8.1 Backracks	1.			. For turkeys; as zina backrack.	Treatment of infection sinucitie, blue comi (mud fever).
8.2 Baciiracin plus peni- cillin.	100-500		-420-0444	mama of countilizations	Do.
•	,			containing not less than 50 percent nor more than 75 percent of backtrain except that it contains not more than 125 grams	
				that it contains not more than 125 grams of penicillin; as pro- cains penicillin plus	
a. 8.1, 8.2	100-200	Amprollum	113.5-227	For turkeys; as pre- - scribed in § 121.210(e),	§ 121.210(c), table 1, item
		1	·	1 table 1, item 1.1.	1
-	TAD	LE 2—ZINC BACI	TRACIN IN	Complete Swine Fed	,
1.1 Backracin	- 60-100			Per swine; as zine bac- tirocia.	Aid in the prevention of increased swine enter
2.1 Bacitracin	100			do	Treatment of bacteria
2.2 Bacitracin plus peni- cillin.	100		,	For swine; 100 grams of combination, contain- ing not less than 60 percent nor more than 75 percent of bactureln;	swine enteritis. Do.
				as sine bacitmein plus procaine penicillia.	

10. In § 121.237(d) by revising the table to read as follows:

§ 121.237 Nihydrazone.

(9) * *

NIHYDRALONE IN-COMPLETE UNICKEN FEED

Principal Ingredient	Grams per ton	Combined with-	Grams per ton	Limitations	Indications for uso
1. Níhydrazono	100			For brollers; for roplacement chickens not over 14 weeks of ago; not for laying chickens.	Provention of chronic respiratory disease (ar- sac infection). In the presence of chronic respiratory disease (air- sac infection) to reduce mertality and soverity of infection, to reduce the number of issions, and assist in maintaining weight gains and feed efficiency. Provention of pullorum disease: fowi typhoid; paretyphoid (salmon- closis) coccideous caused by E. tenella, E. neasure, and E. brunetti and histo- monlasis (blackhoad).
a. Nihydrazone. b. [Reserved]	100	Penicilin	2 4-50	As proceine penicillin	Growth promotion and
c. Nihydrazone.	. 100	Bacitracio	· 4-50	As bacitración methyleno disalicylate, or zine baci- tracin.	feed efficiency. Growth premotion and feed efficiency.
d. Nihydrazone.	100	Chlortetracycline.	· 10-50	As chlortetracycline hy- drochloride.	Do.

§ 121.251 [Amended]

11. In § 121.251 Oxytetracycline, paragraph (d) is amended in table 1 by deleting subitems a through c following items 3 and 6.

§ 121.252 [Amended]

- 12. In § 121.252 Bacitracin methylene disalicylate, paragraph (d) is amended as follows:
- a. In table 1 by deleting the following items and subitems: Item 1.2 and subitem a; item 2.2 and subitems a through d; item 3.2 and subitem a; item 5.2 and subitem a; item 6.2 and subitem a; subitems a through c following item 7.2; and item 4.2 and subitem a.
 - b. In table 2 by deleting item 1.2.

§ 121.253 [Amended]

· 13. In § 121.253 Arsanilic acid, paragraph (c) is amended in the table by deleting subitems a through e following item 1.8 and designating the subitems as "[Reserved]."

§ 121.256 [Amended].

14. In § 121.256 Penicillin, paragraph (d) is amended as follows:

- a. In table 1 by deleting the following items and subitems: Item 1.1 and subitem a; subitem a following item 2.1; item 3.2 and subitems a and b; item 4.2 and subitem a; item 6.1 and subitem a; subitems a through c following item 8.1 item 10.1 and subitem a; items 12.1, 13.1 and subitem a, 15.1.
- b. In table 1 items 16.1 and 17.1 under the limitations column by deleting "bacitracin or" following the words "procaine penicillin +."
 c. In table 2 by deleting item 1 and
- designating the item as [Reserved].
- d. In table 2 item 3 under the limitations column by deleting the word "bacitracin," following "procaine penicillin +."
- 15. In § 121.262(c) the table is amended by deleting subitems a through k following items 1.18 and 2.2 and by adding new subitems j and k following item 1.18 and new subitem a following item 2.2 to read as follows:
- § 121.262 3-Nitro 4 hydroxyphenylarsonic acid.

(c) * * *

TABLE 1-3-NITRO-4-HYDROXYTHENTLAREONIC ACID IN CONFLETE CHICKEN AND TURKEY FEED

Principal ingredient	. Grams per ton	Combined with—	Grams por ton	Limitations,	Indications for use
1.18 aL. [Reserved] j. 1.1. b. 1.3, 1.4. 2.2 a. 2.1. bk. [Reserved]	22.7-45.4 22.7-45.4 22.7-45.4	Chlortetracy- eline. Bacitracia	100-200 4-50 100-200	As sine beciteein	§ 121.208, table 1, item 6. Growth promotion and feed eligiency. § 121.208, table 1, item 7.

§ 121.264 [Amended]

16. In § 121.264 Sulfanitran (acetyl-(p-nitrophenyl)-sulfanilamide) by revoking subitems a through d following item 1.5 in the table in paragraph (c).

17. Section 510.515 is revised to read as follows:

§ 510.515 Animal feeds bearing or containing new animal drugs subject to the provisions of section 512(n) of the act.

Animal feeds that bear or contain penicillin, streptomycin in combination with penicillin, chlortetracycline, feed grade zing bacitracin, and bacitracin methylene disalicylate, with or without added suitable nutritive ingredients are exempt from the certification requirements of-section 512 of the act provided they are the subject of and in compliance with regulations for their use in Subpart C of Part 121 of this chapter, Part 558 of this chapter, or any one of the para-

graphs of this section:

(a) Where indicated in paragraph (b) of this section it is manufactured with or without one, but only one, of the following ingredients in a quantity, by weight of feed, as hereinafter indicated:

(1) Arsanilic acid: Not less than 0.005 percent and not more than 0.01 percent. (2) Sodium arsanilate: Not less than 0.005 percent and not more than 0.01

percent.

. (3) 3-Nitro- 4 - hydroxyphenylarsonic acid: Not less than 0.0025 percent and not more than 0.0075 percent except in chicken or turkey feed which shall contain not less than 0.0025 percent and not

more than 0.005 percent.

(4) Furazolidone: 0.00083 percent. (5). Furazolidone 0.00083 perce (5). Furazolidone with or without nitrofurazone 0.0056 percent, and/or 3-nitro-4-hydroxy phenylarsonic acid not less than 0.0025 percent and not more than 0.0075 per cent except in chicken or turkey feed in which the limit of 3-nitro-4-hydroxyphenylarsonic acid shall be not less than 0.0025 percent and not more than 0.005

(b) It is intended for use in any one of the following conditions set forth in this paragraph:

(1)-(6) [Reserved]

(7) (i) It is intended for use solely as treatment for complicated, chronic respiratory disease (air-sac infection), infectious sinusitis, blue comb (nonspecific infectious enteritis, mud fever), and hexamitiasis in poultry, and/or bacterial swine enteritis; its labeling contains ade-quate directions and warnings for such use; and it contains, per ton of feed, not less than 100 grams of chlortetracycline, or exytetracycline, or a combination of such drugs, or not less than 90 grams nor more than 180 grams of penicillin and streptomycin in a combination containing 16.7 percent penicillin.

(a) When intended for the uses specified in this paragraph (b) (7) (i), it may also contain, in the amount specified, one, but only one, of the ingredients prescribed by paragraph (a) of this section. If it is intended for use solely in poultry, it may contain 0.1 percent of para-aminobenzoic acid or the sodium or potassium salt of para-aminobenzoic acid.

(b) If it is intended for use solely in the treatment of the diseases of chickens described in this paragraph (b) (7) (1), it contains, per ton of feed, not less than 100 grams and not more than 200 grams of chlortetracycline and it contains not less than 0.4 percent and not more than 0.8 percent of dietary calcium, then representations may be made in its labeling to the effect that the reduced amount of calcium aids in increasing the concentrations of the antibiotic in the blood of treated birds; the labeling of such medicated feed shall include that required by § 121.208 of this chapter.

(c) If it is intended for use solely as a treatment for bacterial swine enteritis, it may contain, per ton of feed, not less than 90 grams nor more than 270 grams of penicillin and streptomycin in a combination containing 16.7 percent penicillin, provided that its labeling bears a warning that the feed is not to be used for more than 14 days.

(ii) [Reserved]

(iii) It is also intended for use in the treatment of coccidiosis in chickens caused by E, tenella and E. necatrix; its labeling bears adequate directions and warnings for such use (including the directions and warnings required by paragraph (b) (7) (i) of this section); and it contains, per ton of feed, 200 grams

of chlortetracycline and 0.4 percent to 0.55 percent of dietary calcium.

(8)-(9) [Reserved]

(10) It is intended for use solely in the treatment of chronic respiratory disease (air-sac infection), infectious sinusitis, and blue comb (nonspecific infectious enteritis) in poultry and/or bacterial swine enteritis; its labeling bears adequate directions and warnings for such use; and it contains, per ton of feed, the equivalent of either 100 grams of penicillin, or not less than 100 grams and not more than 500 grams of bacitracin (as zinc bacitracin), or not less than 100 grams and not more than 200 grams of bacitracin (as bacitracin methylene disalicylate), or not less than 100 grams and not more than 500 grams of penicillin and bacitracin (as zinc bacitracin) in a combination containing not less than 50 percent nor more than 75 percent of bacitracin but in no case containing more than 125 grams of penicillin, or not less than 100 grams and not more than 200 grams of penicillin and bacitracin (as bacitracin methylene disalicylate) in a combination containing not less than 25 percent of penicillin nor less than 50 percent of bacitracin; except that, if it is intended for the treatment of bacterial swine enteritis, it contains, per ton of feed, either 100 grams of bacitracin (as zinc bacitracin or bacitracin methylene disalicylate), or 100 grams of a combination of penicillin and bacitracin (as zinc bacitracin or bacitracin methylene disalicylate), containing not less than 50 percent nor more than 75 percent of bacitracin. When intended for the uses specified in this paragraph (b) (10), it may also contain, in the amount specifled, one, but only one, of the ingredients prescribed by paragraph (a) of this section; Provided, however, That the level of antibiotic or antibiotic combination present is not greater than the minimum amount specified therefor in this paragraph (b) (10).

(11) It is intended for use solely as a treatment for bacterial swine enteritis caused by Salmonella choleraesuis, its labeling bears adequate directions and warnings for such use, and it contains nitrofurazone in a quantity, by weight of feed, of 0.058 percent.

(12) [Reserved]

(13) It is intended for use solely in the treatment of chronic respiratory disease (air-sac infection) and infectious sinusitis in poultry; its labeling bears adequate directions and warnings for such use; and it contains not less than 0.1 percent para-aminobenzoic acid or the sodium or potassium salt or paraaminobenzoic acid.

(14) [Reserved]

(15) It is intended for use solely as an. aid in the treatment of poultry in outbreaks of fowl typhoid, pullorum, the paratyphoids, infectious arthritis due to a filterable agent, histomoniasis (blackhead), hexamitiasis, quail disease (ulcerated enteritis), paracolon infection, avian infectious hepatitis, and coccidiosis, its labeling bears adequate directions and warnings for such use; and it contains the following quantities of furazoli-

done, by weight of feed, for the conditions indicated:

(i) For fowl typhoid, pullorum, and the paratyphoids in birds regardless of age: 0.011 percent.

(ii) For the treatment of histomoniasis (blackhead), paracolon infection, and avian infectious hepatitis of chickens, and to lessen the morbidity in outbreaks of infectious arthritis due to a filterable agent: 0.022 percent.

(16) [Reserved] (17) (i) It is intended for use solely as an aid in the treatment of chronic respiratory disease (air-sac infection), infectious sinusitis, blue comb (nonspecific infectious enteritis, mud fever) in poultry; its labeling bears adequate directions and warnings for such use; and it contains not less than 100 grams of chlortetracycline or oxytetracycline or a combination of these two drugs per ton of feed. When intended for such use, it may also contain the equivalent of not less than 100 grams of bacitracin per ton of

(ii) It is also intended for the treatment of the diseases of poultry specified in paragraph (b) (15) of this section; it contains one of the ingredients in the amount and under the conditions set forth in paragraph (b) (17) (i) of this section; and it contains furazolidone in the amount specified in paragraph (b) (15) of this section.

(18)-(24) [Reserved]

(25) It is a medicated cattle feed containing chlortetracycline in the amounts and for the purposes indicated in § 121.-208 of this chapter, and its labeling bears adequate directions and warnings for such use.

(26) (i) It is intended for use solely for accelerating weight gains in beef cattle, and it contains a quantity of diethylstilbestrol adequate to provide not more than 10 milligrams per head per day when fed in accordance with the directions for use that accompany the feed, and there has been submitted to the Commissioner, in triplicate, adequate information of the kind required for Form FD-1800 and such application has been approved by the Food and Drug Administration. The exemption shall expire at the beginning of any act changing the labeling or potency of such drug unless an approved supplement to the application provides for the change, or with change is made in conformance with other provisions of § 514.9 of this chapter.

(ii) It is also intended for the prevention or treatment of the diseases specified in paragraph. (b) (25) of this section. It contains diethylstilbestrol in the amount and under the conditions set forth in paragraph (b) (26) (i) of this section, and it contains the antibiotic in the amount specified in paragraph (b) (25) of this section.

(27) [Reserved]

(28) It is a medicated feed for beef cattle containing bacitracin methylene disalicylate with or without diethylstilbestrol in the amounts and for the purposes specified in § 121:252 of this chapter and its labeling bears adequate directions and warnings for such use.

(29)-(37) [Reserved]

(38) It is intended for use solely for accelerating weight gains in sheep; its labeling bears adequate directions and warnings for such use, including a warning that its use must be discontinued 7 days before the treated animals are slaughtered for human consumption; it contains a quantity of diethylstilbestrol adequate to provide not more than 2 milligrams per head per day when fed in accordance with the directions for use that accompany the feed; it contains less than 50 grams of antibiotics per ton of feed; and there has been submitted to the Commissioner, in triplicate, adequate information of the kind required for Form FD-1800 and such application has been approved by the Food and Drug Administration. The exemption shall expire at the beginning of any act changing the labeling or potency of such drug unless an approved supplement to the application provides for the change or the change is made in conformance with other provisions of § 514.9 of this chapter.

(39) It is intended for use solely as an aid in the treatment of fowl typhoid. paratyphoid, and pullorum disease in poultry flocks; its labeling bears adequate directions and warnings for such use, including a warning against its use in laying hens and a warning that its use must be discontinued 48 hours before the treated animals are slaughtered for human consumption; and it contains 3,5-dinitrobenzamide in a quantity, by weight of feed, of not less than 0.075 percent and not more than 0.15 percent; it contains less than 50 grams of antibiotics per ton of feed; and there has been submitted to the Commissioner, in triplicate, adequate information of the kind required for Form FD-1800—Revised under § 514.2 of this chapter, and such application has been approved by the Food and Drug Administration. The exemption shall expire at the beginning of any act changing the labeling or potency of such drug unless an approved supplement to the application provides for the change or the change is made in conformance with other provisions of \$514.8 of this chapter. When intended for the uses specified in this paragraph, it may also contain, in the amount specified, one, but only one, of the ingredients prescribed by paragraph (a) of this section. If it contains one of the arsenic compounds prescribed in paragraph (a) of this section. its labeling must bear a warning that it must be discontinued 5 days (in lieu of 48 hours as required in this paragraph (b) (39)) before the treated chickens or turkeys are slaughtered for human consumption.

(40)-(51) [Reserved]

(52) It is a cattle feed containing zinc bacitracin, with or without diethylstilbestrol, in the amounts and for the purposes indicated in § 121.225 or § 121.241 of this chapter, and its labeling bears adequate directions and warnings for such use; Provided, however, That if such feed contains diethylstilbestrol it is exempt from certification only under the condition that there has been submitted

to the Commissioner, in triplicate, adequate information of the kind required for Form FD-1800, and such application has been approved by the Food and Drug Administration. The exemption shall expire at the beginning of any act changing

the labeling or potency of such drug unless an approved supplement to the application provides for the change or the change is made in conformance with other provisions of § 514.9 of this chapter. (c) It is intended for use as follows:

Product	Species	· Uso levels	Indications for use
L. Nicarbazia. Procesine penicillin.	Chickensdo	241030g/tott	For use solely in the prevention of outbrenks of coccidiosis in poulity flocks.
2. Nicarbarin Bacitracin meth- ylene disalicylate.	do	0.01 to 0.02 percent 4 to 50 g/ton	Do.
3. Nicarbazia Bacitracia meth- ylena disalicylata.	do	0.01 to 0.02 percent	For use as an old in the prevention of coecidieris in poultry flocks.
3-Nitro-i-hydroxy- phenylarsonic acid.	qo		,
4. Nicarbazia	do	0.01 to 0.02 percent 2.4 to 50 g/ton 0.0025 to 0.005 percent	Do.
pnenymisonie ncid. 5. Proceine penicillin.	Swine	1.5 to 7.5 g/ion	Increase rate of gain and improve
Streptomycin Arsonille acid	qo	7.5 to 37.5 g/ton	Increase rate of gain and improve feed efficiency in growing swines aid in the prevention of bacterial swine enteritis.
6. Penicillin Streptomycin	Chickens and turkeys.	2.4 to 25 g/ton 15 to 75 g/ton.	For use solely as a treatment for complicated chronic respiratory disease (nireae infection), infec- tious cinetits, blue comb (non- specific infections enteritis, and force), and beautifuse in pro-
,		•	
·			try; as an old in maintaining or increasing egg production of chickers, hatchability of eggs.
			chicks when due to organisms that are rentilive to streptomycin
•			feed efficiency of chickens or
7. Penicillin Streptomycin 8. Furazolidone and	Swinedo Chickens and	5 to 25 g/ton	For use in the prevention or treat- ment of bacterial swine enteritis. Growth promotion and feel el-
Bacitracin methyl- ene disalicylate	turkeys. do	4-50 glion	typhoid, paratyphoid, and pul- lainm in chickens and turkeys
or— Zine bacitracia or Procaine penicillia	do	2.4 to 10 g/ton	ficiency. For pravention of fowl typhoid, prantyphoid, and praityphoid, and praityphoid, and praityphoid, and praityphoid, and praityphoid for the first 2 weeks of the hirds' life. For treatment of flowl typhoid, prantyphoid, and pullorum in chickers and trakeys when fed for at least 2 weeks are
			when led for at least 2 weeks, ex- cept when rantyphold is due to S. typikaurium. For reduction of condemnations due to chippin
			condemnations due to chronic replintery disease air-se com- ples associated with rescination
,		. •	street, feed continuously be- ginning at least I week before vaccination. For prevention of
		•	infections bepatitis when fed continuously during the danger period. For control of coccidiosis
	•		condemnations due to chronic replinitory discres aircae complex associated with vaccination street, feed continuously beginning at least I week before vaccination. For presention of infections hepatilis when fed continuously during the dang, period. For control of coccidionis in chickens, carred by E. leadin, E. necatric, or E. accruting when fed for for ot says of longer, For prevention of blackhead (histomonists, enterologoitis) in chickens and turkeys when fed continuously. For prevention of paracolon in chickens and turkeys and hexamiliasis in turkeys when fed throughout the danger period.
1			vention of bisekheed (histomoni- acis, enterohepatitis) in chickens and turkeys when fed continu-
•			colon in chickens and inrices and hexamiliasis in lurkeys when
			non accommensis in the days of the fed throughout the days of period. For control of chronic replinatory disease (air-cao), infectious sinustius, sympotius (arthritis das to fillenbis agent), nonspecific enteritis (blue comb, mud forer) and quali disease (ulcentive enteritis) days of the fed to the days
			filterable agent), nonspecific en- teritis (blue comb, mud fever) and quali disease (picerative en-
			(NOTE.—Severe outbreaks may require twice the layer specified:
	turkoya.	0.011 to 0.022 percent	Le., 0.022 percent.)
Bacitracin methyl- one disalicylate or—	do	4 to 80 g/ton	elency. Aid in maintenance of feed consumption and growth and reduction of mortality and morbidity due to stress; for the
Zinc bacitracin or Procaine penicillin.	0b	2.4-50 g/ton	control of the following non- specific conditions: chronic res- pintory disease (air-sao), in-
-		• •	piratory disease (airsao), in- fectious sinusitis, symptitis (arth- ritis due to a filterable agent), nonspecific enteritis (bine comb, mut (aver) and quali disease
•			mud faver) and quali disease (ulccrative enteritis) when fed to to 0 days. Follow with preven- tive level to prevent recurrence.
•	-		

		-	
Product	Species	Use levels,	Indications for use
10. Furazolidono and— Becitracia methyl ene disalicylate	Chickens and turkeys.	0.22 percent 4 to 50 g/ton	For treatment of paratyphoid due to S. typhinurium when fed for 2 weeks. For treatment of black- head (histomonissis, enterohyph-
or— Zine backiracin or Procaine penicillin	do	2.4 to 50 g/ton	titis) in chickens and turkoys when fed for 2 to 3 wocks (following diagnosis). For treatment of paracolon in chickens and turkeys and hexamitiasis in turkoys when fed for 2 weeks or longer (following diagnosis). For control of chronic respiratory disease (airsao), infectious sinusitis, synovitis (arthritis due to filterable agent), mud fover and quali disease (neerative enteritis) when fed for 5 to 10 days. For treatment of infectious hepatitis in chickens when fed for 5 to 14 days
11. Chlortetracycline.	- Swine	10 to 50 g/ton 0.005 to 0.01 percent	and repeated as necessary. Enhancement of growth and feed efficiency.
12. Chlortetracycline.		20 g/kon	As an aid in the reduction of lesses
13. Chlorietracycline.	do	80 mg per head per day	due to enterotoxomia. It is intended for use as an aid in reducing the incidence of vibricule abortion in breeding sheep; it is to be administered continuously during pregnancy.
14. Chlortetracycline	- Cattle	Feed contains the following quantities of chlortotracyaline, by weight, for the conditions indicated: (1) For the provention of foot rot and as an aid in the reduction of bacterial diarrhea in dairy cattle; (3.1 mg/h) of body weight per day; and (2) as an aid in the reduction of lesses due to respiratory infection (infectious rimotrachetis—shipping fover complex) in dairy eatie: (3.1 mg/h) of hody weight per day, except that if it is intended for use for more than 30 days it may contain chlorietracycline, in a quantity by weight of feed to provide 70 mg per head per day.	As an aid in the reduction of booterial diarrhes in dairy cattle or as an aid in reduction of losses due to respiratory infection (infections rhindracheltis—shipping fever complex) or as an aid in the prevention of feet ret in eartic.

18. In § 558.15 by adding a new paragraph (g) to read as follows:

§ 558.15 Antibiotic, nitrofuran, and sulfonamide drugs in the feed of animals.

(g) The submission of applications and data required by paragraphs (a) and (b) of this section is not required for the continued manufacture of any intermediate premix which is produced solely from a premix that is in compliance with

the requirements of this section: Provided, That the intermediate premix contains no drug ingredient whose use in or on animal feed requires an approved application pursuant to section 512(m) of the act and/or where the premix is approved by regulation in this part.

(1) The following antibacterial drug premixes manufactured by the designated sponsors are eligible for interim marketing based on their compliance with the requirements of this section:

. Drug sponsor	Drug premix	Species	Uso lavels	Indications for use
Commercial Solvents Corp., Thompson- Hayward Chemical	Zinė badimein	Chickens, turkeys, swine, phenemis, and quali.	Sec. 121.233 (tables 1 and 2) of this chapter.	Sec. 121.233 (tables I and 2) of this chapter.
Co. Do	do	Cattle	Sec. 121,225 of	Sec. 121,225 of this chapter.
S. B. Penick & Co., Diamond Shamrock	Bacitracin meth- ylene disalicylate.	Chickens, turkeys, and	this chapterSec. 121.253 (tables 1 and 2) of this	Sec. 121.252 (tables 1 and 2) of this chapter.
Chemical Co. Do.	do	Cattle.	chapter. Sec. 121,225 of this chapter.	Sec. 121,225 of this chapter.
D0	do	do	3) of this	Sec. 121.252 (table 3) of this chapter.
Elanco Products Co		swine.	chapter. Sec. 121.213 (lables 1 and 2) of this chapter.	Sec. 121.213 (tables 1 and 2) of this chapter.
Do	Tylosin	Chickens, swine,	Sec. 53.023	Sec. 553.525.
Abbeit Laboratorics	Erythromycia	Chickens, tur- keys, and swine. Chickens	Sec. 121,292 of	Sec. 121.292 of this chapter.
The Upjohn Co Pfirer, Inc.	Lincomycin Oleandomycin	Chickens Chickens, tur- koys, and swine.	this chapter. See. ASS.355 Sec. ASS.435	Sec. 538.431.
Hoechst	Bambermycins	Chickens	Sec. 558.05	Sec. 53.95.
Pharmacenticals. Elanco Products Co	Tylosin Sulfamethorina	Swine	Sec. SSS CO	Sec. SISCO.
American Cyanamid	Chloristmercline	Chickens, tur-	Sec. 121.208	Do. See. 121-208 (tables 1, 2, and 6) of this chapter.
Co., Diamond-		kers, swine, and cattle.	Go. Sec. 121.208 (tables 1, 2, and 6) of this chapter.	ł.
ical Co Hess & Clark, Rachello Labs, Inc., and Vitamin Premixers of Omaha.			ehapter. See, 121,225 of this chapter.	Sec. 121.223 of this chapter.
Merck Sharp & Dohme Research Labs	Proceine peni- cillin.	Chickens, tur- keys, swine, phonont, and	Sec. 121.230 (tables I and 2) of this chapter.	Sec. 121.236 (tables 1 and 2) of this chapter.
		quall	Sec. 121,225 of this chapter.	Sec. 121.225 of this chapter.
E.R. Squibb & Sons,	do	:do		Do.
Inc. Merck Sharp & Dohme Research Labs.	Splisquinoxalins	Chickens	Continuously, 0.0123 to 0.023 percent.	Aid in prevention of esceld- losis due to Einseria tenella, E. necalris, E. secretina,
D0	doi	Turkeys	Continuously, 0.0175 percent.	E. nearit, E. cervilia, E. trundil, E. maxima. Aid in the provention of cocciliosis due to Emeris militarida. E. milaying and E. celmodile.
D0	do	Rabbits	Continuously, 0.025 percent.	eris due to Ermeria stirdar.
Pfizer, Inc., and Vita- min Premixers of Omaha.	1	•	Sec. 121.251 (table 1) of this chap-	E. perforans. Sec. 121,231 (table 1) of this chapter.
Do	do	Swins (10 to 201b).	25 to 50 g/ton	To increase rate of gain and improve feed efficiency.
Do	do		73% to 10 g/ton	Do.
Do	do	Ib). Swipe	50 g/ton	As an aid in the prevention
Do		-		of betterial enteritis, also known as securs, boby pig diarrica, vibrio dysentery, bloody dysentery, and sal- monellosis (nector or me- crotia enteritis).
<i>1</i> 000000000000000000000000000000000000	đo	do	100 g/ton	As an aud in the treatment of hectrial entertils, also known as scours, beby pig diarptes, vibrio dysentery, bloody dysentery, and salmonellocis (neero or me-
,Do	do	do	50 to 150 g/ton	As an aid in the mainte- nance of weight gains and
	l	ł	1	ence of weight gains and feed consumption in pres-
Do		đo	500 g/ton	enco of atrophic rhinitis. In presence of porcine lep-
				tempisatis reduces instances of abortion, gives higher
			i .	I DITELLAND TOTAL TOTAL TIME
		'	, ·	healthler newborn pigs, reduces urinary shedding of leptospirae and aids in
		İ		maintenance of normal
	1		İ	weight gains and feed consumption. Feed 7 to 14
			l	days, approximately 1 month before farrowing.
Do	da::	Calyes	0.05 to 0.1 mg/b of body weight daily or 25 to	To increase rate of gain and improve feed efficiency.
	1		75 mg per head daily.	

				
Drug sponsor	Drug premix	Species ·	Uso lovėla	Indications for use
Pfizer Inc., and Vita- min Premixers of of Omaha—Conr	Oxytetracycline	j Calves	amalah Adalla as	As an aid in the provention of bacterial diarrica.
	do	,	body weight daily or com- plete feed at	As an aid in the treatment of bacterial diarrhea.
Do	do	Cattle	50 g/ton. 75 to 80 mg per bead daily.	As an old in reducing in- cidence and severity of bloat. As an old in reducing incidence and severity of
•	,			incidence and severity of liver abscesses (for eatth weighing over 400 lb). To increase rate of gain and improve feed efficiency. As an aid in increasing milk production in lactating
Do	do	do	0.1 to 0.5 mg/lb of body weight	dairy cows. As an aid in the prevention of bacterial diarries.
′ Do	do	do	0.5 to 5.0 mg/lb of body weight	As an aid in the treatment of bacterial diarrhes, also
. Do	:-do	do	0.5 to 2.0 g per head dolly.	For the provention and treatment of the carly stages of shipping fover complex. Oxytetracycline
				known as scours. For the prevention and treatment of the carly stages of shipping fover complex. Oxystracycline is effective prophylatis when fed 3 to 5 days preceding shipment and/or-3 to 5 days following arrival in feed-lots. For treatment of shipping fover, these levels should be fed at onset of the disease symptoms until
Do	do	Sheep	10 to 20 g/ton	To increase rate of gala and improve feed officiency
. Do	do	do	50 g/ion	i oi decienal diarrica, also
	do	do	100 g/ton	As an aid in the treatment of bacterial diarrhea, also known as scours, lamb
		do	daily.	As an ald in reduction of losses due to enteretoxumia,
Pfizer, Inc	Penicillin	Chickens, tur- keys, and swine.	Secs. 121,225, 121,256, and 510,515 of this	disease. Sees. 121,225, 121,236, and 510,515 of this chapter.
Do	Penicillin and	do	chapter.	Do. *
American Cyanamid	streptomycin. Chlorieirscycline	Cattle		Sec. 121.203 (table 6) of this chapter.
Do Norwich Pharmacal	Sulfamethazine Nitrofurazone	Swine	0.055 percent (500 g/ton).	Do: Treatment of necrotic enter- itis caused by S. choler-
Mcrok Sharp & Dohme Research Labs.	Proceine penicil- lin and strepto- mycin sulfate.	Secs. 121.225 and 121.258 of this chapter.	Secs. 121.225 and 121.256 of this chapter.	Secs. 121.225 and 121.250 of this chapter.
Hofman-LaBoratories	Erythromycin Sulfadimethoxine	Cattle	37 mg per head per day. Sec. 558.575	Sec. 121.225 of this chapter: Sec. 558.575:
Inc. Pfizer, Inc	and ormotoprim. Oxytetracycline and neomycin.	turkeys. Chickens, tur- keys, swine, and calves.	As provided in paragraph (g)(2) of this section.	As provided in paragraph (g) (2) of this section.
American Oyanamid Co. and Rachelle Labs, Inc. Diamond Shamrock	Ohlortetracycline, sulfamethazine, and penicillin. Chlortetracycline,	Swine	40	Do:
Diamond Shamrock Chemical Co.	Chlorietracycline, sulfathlazole, and penicilling	0b	do	Do:

Drug sponsor	Drug premix	B pecies	Uso lovels	Indications for use
Hess & Clark and Norwich Pharma- cal Co.	Furarolidone	Chickens and turkeys.	0.00063 to 0.0011 percent (7½ to 10 g/ton).	To stimulate growth and improve fred efficiency of chickens and turkeys when
Do. n. saturate.	: :	do	0.0055 percent (60 g/ton).	fed continuously. For prevention of fowl typhold, paratyphold, and pullorum in chickens and turkeys when fed continuously in birds older than 2 weeks older. For alid in prevention of coecidicis in chickens caused by E. tendlo. E. necatrix, or E. controllar when fed continuously in the controllar when fed continuously.
Do. v	do	do	0.003-0.011 per- cent (60-100 g/ton).	Aid in maintenance of feed consumption and growth and reduction of morbidity and mortality due to stress and the following monspe- cifes conditions: Chronic respiratory disease fair- sace), infectious rinusitis, synovitis (arthritis due to tilterable agent), monspe- cific enteritis (bine comb,
•				case (ulcerative enteritis) when led continuously prior to or throughout the danger period and during times of stress.
Do	do	,do	0.011 percent (100;/ ton).	For presention of fowl ty- phoid, parntyphoid and pullorum in chickens and intreys when fed for the first 2 weeks of the birds' ills and followed continu- ously thereafter by \$\frac{1}{2}\$ this lavel (i.e., 0.005 percent). For treatment of fowl typhoid, parntyphoid, and pullorum in chickens and jurkeys when fed for at least 2 weeks except when parntyphoid is due to \$\frac{1}{2}\$.
. Do	do	do	do	for reduction of consumations due to chronic respiratory disease alreso compler exociated with receination stress, feed continuously beginning at least 1 week before vaccination. For prevention of infectious hepatitis when fed continuously during the danger period. For control of coccidiosis in chickens caused by E. featile, E. recentri, or E. corrulins when fed for 5 to 7 days or longer and followed by 14 this level (Le., 0.003) percent) for 2 weeks to add in
. D0	00		do	provening recurrence. For prevening of black head (histomoniasis, enterobe- patitis) in chickens and turkeys when fed con- tinuously. For prevention of paracolon in chickens and turkeys and beta- militasis in lurkeys when fed throughout the danger- period. For control of chronic respiratory diseas (alrease), infectious si- motils, synovitis (arthrilis dua to filtemble agent), nonspecific enteritis (bino comb., mid fover) and quali disease (plemitive enteritis) when fed for 5 to 10 days and followed with fit this lovel (i.e., 2003) per- cent) to ald in provening recurrence. [Nors.—Se- vere outbreaks may re- quira twice the larel speci- fied; i.e., 2002 percent).

Drug sponsor	Drug premix.	Epecies ⊹	Use levels: '	I. I Indications for use
Hoss: & Clark: and: Norwich Pharms- cal Ch. Con.	Furazolidone	Chiekens and turkeys	0.01F to 0.022: percent (100 to 200 g/ton).	Aid in maintenance of feeds consumption and growth, and reduction of mortality
				and, morbidity due to stress, for the central of the following nonspecific conditions: Chronic res- phratory disease (air-seo), infections sinusitis, syno- vitis (arthritis due to a dittemble agent), (blue
Do	do		0.022 percent (200 g/ton .	illerable agent), (blue comb, mad sever), and quail disease (ulcerative entartits) when fed 5 to 10 days. Follow with protentive lovel to pravant remersion. For treatment of paraty-phoid due to S. typhimurium when fed for 2 weeks. For treatment of blockead (ulstomeniasis, enterohepatitis) in chickons.
•				2 to 3 weeks (following diagnosis). For treatment of paracolon in chickens and turkoys and hexamitiasis in turkoys when fed
•				for 2 weeks or longer (fol- lowing diagnosis). For con- trol of chronic respiratory disease (air-sao), infectious sinustils, sunovilis (arth- ritis due to filterable agent), nonspecific enter- itis (blue comb, mid fover), and quali disease (ulcomitive enteritis) when
:				lowed with 14 this lovel (i.e., 0.0055 percent) to aid in proventing recurrences. For treatment of infectious hopatitis in chickens when fed for 14 days and repeated
. Do	do	Swine	Sec. 121.255 of this	as necessary. Sec. 121.255 of this chapter.
Do:	Nitroforazone	Chickens	chapter. 0.0055 percent (50g/ ton).	diosis when fed continu-
Do:	do	Turkeys	do	onely. As an aid in controlling losses due to secondary bacterial invasions con- current with coccidiosis outbreaks when fed con- tianously throughout the
, Do	'Nibydrazone	Chickens	Sec. 121.237 of this chapter.	tinuously throughout the danger period. Sec. 121.237 of this chapter:

(2) The following is a list of drug combinations permitted when prepared from antibacterial drug premixes listed in paragraph (g) (1) of this section. Drug combinations listed in Subpart B of this part name their sponsors and are incorbinations.

Drug sponsor	Drng ingredient	· Species	Üse levels	Indications for use
Diamond Shamrock - Chemical Co. Do	1	Bwine	1	Enhancement of growth and feed efficiency.
American Cyanamid	Chlorietracycline	Cattle	cent. Sec. 121,208	Do. Sec. 121.203 (table 6) of this chapter.
Pfizer, Inc., and	and sulfame- thazine. Oxytetracycline	Chickens	(table 0) of this chapter.	chapter. Prevention of diseases from
Vitamin Premixers of Omaha. Do		do		oxytetracycline susceptible
Do	Oxyietracycline	Chickens (ist 2 weeks).	50 to 100 g/ton	terilis and in the control of neonycin-ensitive orange isms associated with blue comb (muld lever or non-specific enteritis). Prevention of early chick martolity due to expetinguisms. As an aid in the provention of bacterial enteritis and in the control of neonycin-ensitive orangements. So the control of neonycin-ensitive orangements associated with blue comb found fever or non-
Do	Neomycin base Oxytetracycline	Chickens	35 to 140 g/ton 50 to 100 g/ton	Do.
: _	٠.	•		efficiency, to improve eag production and feed eli- ciency in presence of discase and at time of stress: As an aid in maintaining and im- proving hatchebility where lirds are suffering stress
Do		,	. ,	colling, extreme tempera- ture changes, and worm- ing to improve livability of progeny when losses are due to anyteinocycline-sus- ceptible organisms, to im- prove our shell quality, prevention of bine comb imud fever or monspecific enteritis). As an aid in the prevention of bacterial en- teritismal in the control of neomycla-censitive orga- nisms associated with bine comb (mnd lever or mo specific enteritis).
Do	Noomycin base Orytetracycline	do	35 to 146 g/ton 100 to 200 g/ton	Prevention of complicated chronic respiratory disease (air-ses infection) and confict of complicated chronic respiratory disease by lowering mortality and severity during onthreaks. As an aid in the prevention of bacterial enterities and in the control of neomycinsensitive organisms associated with bine compliques.
Do Pfizer, Inc	Neomycin base Oxyteirneycline	Turkeys	35 to 149 g/ion CO g/ton	layer or nonspecific en- teritis). Do. As an aid in the provention of disease from explaintey- eilla-susceptible organisms during periods of streez. As an aid in the provention of becierial enteritis and in the control of neomycla- sensitive organisms axo- ciated with blue comb (mud fever or nonspecific fund fever or nonspecific
		Y	•	enteritis).

Drug spensor	Drug ingredient	Species	Use lovels	Indications for uso
Plizer; IncCon.	Namentales	do:	25 to 145 alter	
Do	Oxytetracycline	do	35 to 140 g/ton 50 to 100 g/ton	To extend period of high egg production, to improve egg production, to improve
				production, to improve egg production, to improve feed afficiency, to improve fertility, to improve cgg production and feed cili-
				disease and time of stress;
*	-			and improving hiteli- ability where birds are suffering from stress, ex- posure, moving, vaccina- tion, cuiling, extreme lesses due to extraording-
	· .			due to oxytetracyclinesus ceptible organisms, and t improve egg shell quality provention of hexamitiasis
•	•	, <u> </u>		As an aid in the provention
75-				the control of neomycin- sensitive organisms as- sociated with blue comb (mud fover or nonspecific enteritis).
D0	Neomycin baso Oxytotracycline	Turkeys (first 4 weeks).	35 to 140 g/ton 50 to 100 g/ton	As an aid in the prevention of
• • • • • • • • • • • • • • • • • • • •			,	oxyletrocycline-susceptible organisms. As an aid in the provention of bacterial enteritis and in the control of neomycin-sousitive or-
Do	Neomycin base	đo	85 to 140 alton	of neomycin-sensitive or- genisms associated with blue comb (mud fover or nonspecific enteritis).
, Do	Oxytetracycline	do	85 to 140 g/ton 100 to 150 g/ton	As an aid in reducing mor- tality in birds which have suffered an attack of air-
				suffered an attack of air- sacculitis (it is recom- mended, wherever possi- ble, to feed from time of attack to marketing).
Do	Neomycin base Oxytetracycline	Turkeys	85 to 100 g/ton 100 to 150 g/ton	Do. As an aid in the prevention of bacterial enteritis and in the control of neomycin-
	.			sensitive organisms associ- ated with blue comb (mud- fover or nonspectite enter- itis).
Do Do	Neomycin base Oxytetracycline	do	35 to 100 g/ton 100 to 200 g/ton	Do. Control of blue comb (mud
				fover of nonspecific enter- itis), infections sinusitis and hexamitists, proven- tion of infections synovitis. As an ald in the prevention of bacterial enteritis and
•	; ;	·		sensitive organisms associ- ated with blue comb (mud
Do	Neomycin baso Oxytotracycline	doi	35 to 140 g/ton 200 g/ton	fover or nonspecific enter- itis). Do. Control of infectious syno-
	t ;		•	vitis. For the treatment of bacterial enteritis and blue comb (mud fever or non- specific enteritis).
Pfizer, Inc., and Vit- amin Bremixers of Omaha:	Neomycin base . Oxytetracycline	Swine	70 to 140 g/ton 50 g/ton	Do. As an aid in the prevention of hanterial enterities
• •	•	•		(scours), baby pig diarrhea (in baby pigs only), vi- brionic dyscnitery, bloody dysentery and salmonollo- sis (neero or necrolic enteritis).
Do Do	Neomycin base Oxytetracycline	do	35 to 140 g/ton 50 to 150 g/ton	Do. As an aid in the maintenance of weight gains and feed consumption in the pres- case of atrophic rhinitis. As an aid in the treatment of bacterial entertits.
Do Prizer, Inc	Neumycin base Oxytetracycline	Calves	70 to 140 g/ton 50 g/ton	Do. As an aid in the provention of bacterial enteritis (securs).
Do Do	Neomycin base Oxytetracycline Neomycin base		35 to 140 g/ton 100 g/ton 70 to 140 g/ton	Do. As an aid in the treatment of bacterial enteritis (scours). Do.

Drug spensor	Drug lugrodient	Epecies .	Uso lovels	Indications for use
Pfizer, Inc.—Con.	Ozyteimoyclina	Calves	8 to 100 mg/gal reconstituted	o activated the provention of bacterial disarrances;
Do	Neomycia bass	do	milk replacer. 100 to 200 mg/gal reconstituted	Da.
D0	Oryteirsoycline	do	milk replacer. 40 to 200 mg/gal reconstituted	Do.
Do	Neomycin base	do	milk replacer. 200 to 400 mg/gal reconstituted	Do.
The Upjohn Co	Lincomycla, am- prolium, and	Chickens	milk replacer. Secs. 659.325 and 121.2100f this	Secs. 559.325 and 121.210 of this chapter.
Do	ethopobate. Lincomycin and zoolene.	do	chapter. Secs. 653.325 and 121.207 of this	Sees. 533.333 and 121.207 of this chapter.
D0	Lincomycin, nm- prolium, eth-	do,	ehapter. Secs. 558,325 and 121,210 and	Secs. 558.325 and 121.210 and 121.262 of this chapter.
· .	opabate, and 3-nitro-i- hydroxyphenyl-	,	121.362 of this chapter.	
Do	arsonic acid. Lincomycin, monensin, and 3-nitro-4- hydroxyphenyl-	do	Sees. AND and AND ST and 121,202 of this chapter.	Sees. USAU and USAU and 171.000 of this chapter.
Merck Shorp & Dohme Research Labs. and Pfizer, Inc.	arsonie acid. Procaine peni- cillin.	Chiekens and turkeys.	24 to 7.5 g/ton	Sec. 121.225(a)(3)(iii) of this chapter.
Do	Streptomycin Proceine peni- cillin.	Chickens	12.0 to 37.5 g/ton 3.75 to 7.5 g/ton	Do. Do.
Do	Streptomycln Procaine peni- cillin.	do	18.75 to 37.5 g/ton 3.75 to 30 g/ton	Do. Sec. 121.256 (table 1) of this chapter.
Do	Streptomycin Procalno peni- cillin	Turkeys	18.75 to 120 g/ton 15 to 30 g/ton	Do. Do.
. Do	Streptomycin Proceine peni- cillin.	Chiekens	75 to 150 g/ten 24 to 25 g/ten	Do. Sec. 510.515 of this chapter.
Do	Streptomycln Proceding peni- cillin.	do Swine	15 to 75 g/ton 1.5 to 7.5 g/ton	Do. Sec. 121,225(a)(5)(1v) of this chapter.
. Bo	Streptomycin Proceine peni- cillin.	go	7.5 to 45 g/ton	Do. Sec. 121,238 (table 2) of this chapter.
D ₀	Streptomycin Proceine peni- cillin.	qo	57.5 to 225 giten 5 to 25 giten	Sec. 510.515 of this chapter.
Dō Merek Sharp & Dohmo Research Lobs.	Streptomycin Proceins peni- cillin.	do	1.5 to 7.5 g/ton	Do. Do.
Do Do Do	Streptomycin Arsanilio acid Nicarbarin	dodo Chickens	7.5 to 37.5 g/ton 45 to 90 g/ton 0.01 to 0.02 per-	Do. Do. Do.
Do	Precaine peni-	đo	24 to 60 g/ton	Do.
Do	Nicarbarin	05	0.01 to 0.02 per-	Do.
. Do	Bacitracin meth- pleno disalicy- late.	go	4 to 60 g/ton	Do.
Do	Nicarbaria	do	0.01 to 0.02 per-	Dos
Do	Bacitracin meth- ylene displicy- inte.	do	4 to CO glion	Doz
D0	3-nitro-1-hydroxy- phenylarsonic acid.		Descept 0'0002 to 0'002	Ъъ.
Do	Nicarbarin Procaine peni-	do	0.01 to 0.02 per- cent. 24 to 50 g/ton	Do:
Do	cillin. 3-nitro-1-bydroxy- phenylarsonio	qo	0.0025 to 0.025	Doz
Do	acid. Amprollum:	Chickens and	Dereent. 0.0125 to 0.025	Sec. 121.210 of this chapters
Do	Bacitracia methylena	turkeys.	percent. 4 to 50 g/ton	Dae
Do	disalicylate. Amprolium	Chickens	0.0125 to 0.025	Do:
Do Do	Ethopabale Bacitracia methylene	do	percent. 0.0001 percent	Do: Do.
Do	Amprollum.	do	0.0125 to 0.023	Bees. 121,210 and 121,263 of this chapter.
Do	Ribopabate Bacitracin methylene	do	percent. 0.001 percent. 4 to 50 g/ton.	Do. Do:
Do	disalicylate. 3-nitro-1-bydroxy- phenylarsonic acid.	do	Detector 0.0022 to 0.002	Do.

Drug sponsor	Drug ingredient	Species	Tao lerels	· Indications for use
Dow Chemical	Zonians	Chiekens.:	0.0125 percent	De:
CO.—COD.	Penicillia	do	2.4 to 20 eften	De.
Do	Zoalene	do	2.4 to 50 giton	Do.
D0	Zoniene 3-nitro-1-hydroxy- phenylarsonie acid.		0.005 percent	De.
<u>D</u> 0	Penicilin	do	2.4 to 50 g/lon	Do. Do.
Do	Zoalene Atsanllie seld	do	d.01 percent	Do.
Do	Bacitracia meth- ylene disalley- late or zine bacitracia.	d0		Do.
Do:	Zoaleno	do	0.0123 percent	Do.
Do	Arsanilie acid	da	0.01 percent	Do. Do.
Do Do Do	Zonicno	d0	2.4 to 50 g/ton 0.001 to 0.0125 per-	Do.
Do	Bacliracia methylens	do	4 to 60 g/ton	100.
	disalicylata. Zoaleno	ا ا	0.001 to 0.0125 per-	Do.
Do		l i	cent	200.
Do	3-nitro-i-bydroxy- phenylarsonio seld.	do	0.005 percent	Do.
Do	Bacitmein methylens disalicylate.	d0	4 to 50 g/ton	Do.
Norwich Pharmacal Co.	Furnzolidone	Swine	0.022 percent (200 g/ton).	Prevention of locterial enter- itis (neerotic enteritis, neero) and vibrionic (bloody) dysentery; growth promotion while on medi-
•				cause when her in pre- starters, starters, and grow- ing rations to baby pigs and growing swine for 2 weeks, As an aid in the maintenance of weight rains and feed consump-
	0-4-4		**************************************	thinkis.
Do Do	Oxyletracycline Furazolidene	do	50 to 150 g/ton 0.011 percent (100 g/ton).	Do. Provention of becterial enter- itis (necrotic enteritis, ne- ero) and vibriania (bloody)
Do	OmdelmanNina		ra ta emantes	ero) and vibricalis (birody) dyseniery; growth promo- tion while on medication when fed in prestariors, planters, and growing matters, and growing to the second of the property of weeks. As an aid in the maintenance of weight pains and feed consumption in presence of atrophic rhintis. Orewith promotion and feed ciliciancy. Do.
Do	Arsanilio acid		0.005 to 0.01 per-	D6.
Do	Furnzolldons and		cent. 0.011 to 0.022 per- cent (100 to 200 g/ton).	Sec. 510.515 of this chapter.
Do	Bacitracia meth- yleno disalicy- into or-	qo	4 10 20 Elion	Do.
- Do	Zine backracks or	do	2.4 to 50 g/ton	100.
Do	penicilin. Nihydrozone	Chickens	0.011 percent (100	Sec. 121.237 of this chapter.
Do	i lin.	00	1	Do.
Do	Nihydrazona		0.011 percent (100 g/ton).	Do.
Do	Chlorieiracycline Nihydrazone	do	g/ton). 10 to 50 g/ton	Do. Sec. 121.237 of this chapter.
Do	Bacitracin	do	0.011 percent (100 citon). 4 to 60 citon	Do.
-	mathylena disalicylate or rine bacitracin.			
Do	Furnzolidone	Swine	0.011 percent (100 giton).	Prevention of beclerial en- teritis (accrotic enteritis, necro) and vibrionia (bisody) dysentery growth promotion while on medi- cation and when fed in purstarters, starters, and growing swine for 5 weeks. As an aid in the mainten- sings of wright; gains and
-		l .		feed consumption in pres- ence of atrophic rhinitis.

•				
Drug spousor	Drug ingredient	Species	Use levels	Indications for use
Norwich Pharmackl Co.—Con.	Furnzolidone	Swine	0.0165 percent (150 g/ton).	Provention of bacterial enter- itis (necrolic enteritis, necro) and vibrionic (bloody) dysentery; growth promotion while on medi-
	•	•		cation and whom fod in prestarters, starters, and growing swine for 3 weeks. As an aid in the main- tenance of weight gains- and feed consumption in presence of atrophic rhin- itis.
Do	Oxytetracycline Furazolidone	do	50 to 150 g/ton 0.0165 percent (150 g/ton).	Do. Prevention of bacterial enter- ilis (necrolic enteritis, necro) and vibrionic (bloody) dysentery; growth promotion while on medi- cation when fed in pre-
		t	· .	states, states, and govering rations to baby pigs and growing swine for 3 weeks. As an aid in the maintenance of weight gains and feed consumption in presence of strophic rhinitis. Growth promotion and feed officiency.
Do	Oxytetracycline Arganilic acid Furazolidone	dodo	50 to 100 g/ton 0.005-0.01 percent_ 0.022 percent	Do. Do. Do. Prevention of bacterial enter- itis (necrolic enteritis, necro) and virbinoic (bloody) dysentery; growth promotion while on modi- cation when fed in pro- starters, starters, and grow- ing rations to baby pigs and growing swipe, for 2
			50 to 100 g/ton	and growing swine for 2 weeks. As on old in the maintenance of weight gains and feed consumption in presence of atrophic rhinitis. Growth promotion and feed officiency. Do.
Do	Oxytotracycline	do	0.005 to 0.01 per-	Do. ,
Whitmoyer Labs. Inc	Carbarsone and bacitracin.	Turkeys	Sec. 121.310 of this chapter.	Sec. 121.810 of this chapter.

§ 558.19 [Revoked]

19. By revoking § 558.19 Combination antibiotic drugs in animal feeds no longer sanctioned and reserving it.

§ 558.35 [Amended]

paragraph (g) (5), (6), (7), and (8).

§ 558.505 [Amended]

21. In § 558.505 Reserpine by revoking paragraph (g) (2), (3), and (4) and reserving them.

§ 558.625 [Amended]

22. In § 558.625 Tylosin by revoking paragraph (f) (1) (iii) (b) and reserving it.

Effective date. This regulation shall be · effective on March 26, 1976. 20. In § 558.35 Aklomide by revoking (Secs. 512, 701(a), 52 Stat. 1055, 82 Stat. 343-351 (21 U.S.O. 360b, 871(a)))

Dated: February 2, 1976.

SAM D. FINE, Associate Commissioner for Compliance. [FR Doc.76-5221 Filed 2-24-76;8:45 am]